CONSTRUCTION NEWS

PERSONALS, ENGINEERING SOCIETIES, ENGINEERING SCHOOLS, READERS' WANTS, INDUSTRIAL NOTES, PUBLICATIONS.

Supplement to ENGINEERING NEWS. New York, August 11, 1904.

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PERSONAL.

Mr. George Fletcher, of Fairmount, Ind., has been appointed City Engineer and Superintendent of Water-Works of Brazil, Ind.

Mr. R. T. Long, of Newberry, N. C., has accepted the position of Superintendent and Manager of the water, light and power plant at Anderson, N. C.

At its recent commencement Brown University conferred the Honorary Degree of Doctor of Science on Consulting Engineer John R. Freeman, of Providence, R. I.

Mr. J. R. Cullinane, for many years Manager of the Denison Light & Power Co., Denison, Tex., has assumed the management of the Texarkana Light & Power Co., at Texarkana.

Mr. T. A. Corry, Resident Engineer of the Mexican Southern Ry., with headquarters at Puebla. Mex., has resigned to accept a similar position on another line, and Mr. J. A. Chisholm has been appointed to fill the vacancy.

Mr. Arthur J. Slade, of 4 East 42d St., New York City, has been retained as Consulting Engineer by the International Power Vehicle Co., of Stamford, Conn., manufacturers of kerosene oil engines for stationary, marine and automobile work.

Mr. E. W. Lawson has resigned as Assistant Electrical Engineer of the Canton-Akron and Canton-New Philadelphia traction systems at Canton, O., to accept a position in the electrical department of the Public Service Corporation at Jersey City, N. J.

Mr. Clarence Feltman, Professor of Electrical Engineering in the university at Darmstadt, Germany, is in the United States investigating methods employed in teaching that science. He recently visited the Carnegie Technical Schools at Pittsburg, Pa.

Mr. Charles E. Warner, formerly General Superintendent of the Allegheny County Light Co., of Pittsburg, Pa., has been appointed General Manager of the San Juan Light & Transit Co., which operates an extensive electric lighting and traction system in the capital of Porto Rico.

Mr. Mark M. Murtaugh, Assistant General Manager of the Twin Falls Land & Water Co., Milner, Idaho, and Miss Elizabeth Ford, of Salt Lake City, were married at the latter place Aug. 2. After a three weeks' trip to the coast they will return to Milner, where they will reside.

Mr. George Marsh who for eight years has been Manager of the crusher sales department of the Allis-Chalmers Co., and its predecessor, the Gates Iron Works, has resigned this position to devote all of his time to the Contractors Supply & Equipment Co., of Chicago, of which he is Treasurer, and in which he has been interested for some time.

OBITUARY.

W. H. Fopping, President of the Columbus, Ga., Waterworks Co., died at Columbus Aug. 31, aged 84 years.

Charles G. Wands, a civil engineer of North Yokima, Wash., was instantly killed July 23 by falling from a train.

R. K. Maddocks, for the last two years Chief Civil Engineer in charge of work for the Lackawanna Coal & Coke Co., at Wehrum, Pa., died at Boulder, Colo., July 27.

Ex-Congressman John F. Starr, founder of the Starr Iron Works, one of the largest smelting foundaries in the world, died at his summer home in Atlantic City, N. J., Aug. 9, aged 86 years.

Gustavus W. Nagle, a well known bridge builder, died at his home in Elmira, N. Y., Aug. 6. During the Civil War he organized and superintended the bridge corps of the United States Military Railroads Department.

Mrs. George W. Davis, wife of Major-General Davis, retired, Governor of the Isthmian Canal Zone, died at Big Moose, N. Y., Aug. 5. The body was taken to Washington, pending the arrival of General Davis, who started from Colon Aug. 3.

Colonel John J. Williams, at one time Civil Engineer of the Tehauntepec R. R. & Ship Canal Co., died at his home in Jackson, Tenn., July 29, aged 86 years. Col. Williams had a varied and successful engineering career. In 1849 he was Chief Assistant Engineer for surveys across the Isthmus of Panama for the Panama R. R. Co., and in 1851 he conducted surveys in Tehauntepec. He had been Assistant Chief Engineer of the Cleveland, Columbus & Cincinnati R. R., and for 16 years was Superintendent of a division of the Mobile & Ohio R. R. He was also associated with Captain Eads as engineer in charge of surveys for the construction of a railroad across Tehauntepec.

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ENGINEERING SOCIETIES.

COMING MEETINGS.

CENTRAL STATES WATER-WORKS ASSOCIATION.
Aug. 16, 17, 18, 1904. Annual convention at Toledo, O Secy., W. A. Veach, Newark, O.
LAKE SUPERIOR MINING INSTITUTE, Aug. 16-18, 1904. Annual summer meeting at Ironwood, Mich., and Milwaukee, Wis.
SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION.
Sept. 1, 2, 3, 1904. Annual meeting at St. Louis, Mo Secy., C. A. Waldo, Lafayette, Ind.
SOCIETY OF CHEMICAL INDUSTRY.
Sept. 7 to 12, 1904. Annual meeting at New York, N.Y. Gen'l Secy., C. G. Cresswell, 9 Bridge St., Westminster, London. Secy., New York Section, T. J. Parker, 25 Broad St., New York.
INTERNATIONAL ELECTRICAL CONGRESS.
Sept. 12 to 16. At St. Louis, Mo. Secy., A. E. Kennelly, Harvard University, Cambridge, Mass.
ROADMASTERS' AND MAINTENANCE-OF-WAY ASSOCIATION.
Sept. 13, 14, 15. Annual meeting at St. Louis, Mo. Secy., C. E. Jones, Beardstown, Ill.
AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.
INSTITUTION OF ELECTRICAL ENGINEERS. (Great Britain.)
Sept. 14, 1904. Joint convention at St. Louis, Mo. Secy. Am. Inst. Elec. E., R. W. Pope, 95 Liberty St., New York.
AMERICAN INSTITUTE OF MINING ENGINEERS.
Sept. 14 to 21. Annual convention at Duluth, Minn., and Houghton, Mich. Secy., R. W. Raymond, 99 John St., New York.
INTERNATIONAL ENGINEERING CONGRESS.
Oct. 3 to 8, 1904. Held at St. Louis, Mo., under the auspices of the American Society of Civil Engineers. Secy., Chas. Warren Hunt, 220 W. 57th St., New York.
AMERICAN BOILER MANUFACTURERS' ASSOCIATION
Oct. 4, 5, 6, 1904. Annual convention at St. Louis, Mo. Secy., J. D. Farasey, Forest St. and Erie Ry., Cleveland, O.
AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.
Oct. 4, 5, 6, 1904. Annual meeting at St. Louis, Mo. Secy., G. W. Tillson, Municipal Building, Brooklyn, N. Y.
AMERICAN STREET RAILWAY ASSOCIATION.
AMERICAN RAILWAY MECHANICAL AND ELECTRICAL ASSOCIATION.
STREET RAILWAY ACCOUNTANTS' ASSOCIATION.
Oct. 10 to 15, 1904. Annual meetings at St. Louis, Mo.
RAILWAY SIGNAL ASSOCIATION.
Oct. 11. St. Louis, Mo. Secy., B. B. Adams, 83 Fulton St., New York.
ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.
Oct. 18, 19, 20. Annual meeting at Chicago. Secy., S. F. Patterson, Concord, N. H.
AMERICAN GAS LIGHT ASSOCIATION.
Oct. 19, 20, 21, 1904. Annual meeting at Washington, D. C. Secy., A. E. Forstall, 58 William St., New York, N. Y.
IRON AND STEEL INSTITUTE (Great Britain).
Oct. 24 to 26, 1904. Annual meeting at New York City. Secy., B. H. Brough, 28 Victoria St., London, S. W.

LAKE SUPERIOR MINING INSTITUTE.—The annual summer meeting will be held at Ironwood, Mich., and Milwaukee, Wis., on August 16 to 18. A session is scheduled to be held at Ironwood on Aug. 16, after which the party will leave on special train for Milwaukee. Professional papers will be presented as follows: "Titanium and Titaniferous Iron Ores," by Mr. N. P. Hulst; "Supply Systems," by Mr. W. M. Jeffrey; "A Study of Faulting at the Ashland Mine," by Mr. L. Eaton; "Sinking a Sand Shaft at Maas Mine," by Mr. W. W. Graff; "Sinking a Shaft in Quicksand at the Susquehanna Mine," by Mr. H. B. Sturtevant; "Iron and Steel Consumption," by Mr. G. H. Abeel; "The Bisbee District of Arizona," by Mr. G. A. Newett. Several other papers are expected.

BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.—The annual meeting of the association will be held at Cambridge during the coming week, on Aug. 18 to Aug. 23, 1904. The association has a strong engineering section (Section G.); some of the papers to be read before the section are the following: Presidential Address by Mr. C. A. Parsons; "The Internal Combustion Motor in Britain," by Mr. C. Dugald Clerk; "Some Tests on Small Gas Engines," by Prof. B. Hopkins; "The Use of Electricity on the North-Eastern Ry. and on Tyneside," by Mr. C. H. Merz; "Electricity from Water-Power," by Mr. A. A. C. Swinton; "Energy Losses in Magnetizing Iron," by Mr. W. M. Mordey and Mr. A. G. Hansard; "Large-Bulb Incandescent Lamps as Secondary Standards of Light," by Prof. J. A. Fleming; "The Control of the Nile," by Major Sir Hanbury Brown; "A Universal Testing Machine of 300 tons for Full-Sized Members of Structures," by Mr. J. H. Wicksteed; "The Effects of Receiver Drop in a Compound Engine," by Mr. J. W. Hayward; "A New Process for Applying Zinc to Metallic Surfaces," by Mr. S. Cowper-Coles.

INTERNATIONAL RAILWAY CONGRESS.—The seventh session of the International Railway Congress will be held at Washington, D. C., in May, 1905. This will be the first time that the Congress meets in America. The first meeting of the Congress was held in 1885 at Brussels, Belgium, and was a celebration of the semi-centennial of the opening of the Belgium Railways. Two years later the second meeting took place, at Milan, Italy. The third, fourth, fifth and sixth meetings, in 1889, 1892, 1895 and 1900, were at Paris, St. Petersburg, London, and Paris respectively. The Congress is governed by a permanent international Commission whose present officers are: President, Mr. A. Dubois, Belgian State Railways; Vice-Presidents, Mr. A. Picard, Inspector-General of Bridges and Highways, Paris, and Mr. Ramaeckers, President of the Counsel of the Belgian State Railways; Secretary, Mr. L. Weissenbruch, Manager of the Belgian State Railways. The arrangements for the Washington meeting are in the hands of the American section of the Congress. Mr. Stuyvesant Fish, President Illinois Central Ry., is Chairman of the section and Mr. W. F. Allen, 24 Park Place, New York, is Secretary. The Congress will meet in five sections: 1. Way and Works; 2. Locomotives and Rolling-stock; 3. Working; 4. General; 5. Light Railways. Each section will consider a series of questions which are to be treated exhaustively by previously appointed speakers and then submitted for general discussion.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.), may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close	Work.	Place.	On file.	See issue.
Aug.				
•12	Wreck removal	Boston, Mass.	S.	7-21
•15	Shore protection	Richmond, Va.	S.	7-21
•15	Sewers	Washington, D. C.	S. & B. S.	7-21
•15	Canal, etc.	Port Huron, Mich.	S. & B. S.	7-28
15	Brick paving	Oberlin, O.	S.	8- 4
•15	Power plant	Lancaster, Pa.	P. & S.	8-11
17	Paving	New Rochelle, N. Y.	S.	8-11
•17	Sewer	Springfield, Ill.	P., S. & B. S.	7-28
17	Drainage ditch	Brodhead, Wis.	S. & B. S.	7- 4
•18	Reservoir, etc.	Ft. Meade, S. D.	P.	7-21
•20	Wreck removal	Wilmington, Del.	S.	7-21
20	Building	Portsmouth, N. H.	S.	8- 4
22	Electric plant	Burlington, Vt.	P., S. & B. S.	7-28
22	Roads	Harrisburg, Pa.	S. & B. S.	8-11
22	Water-works	Poland, N. Y.	S.	8- 4
•24	Sea wall	Galveston, Tex.	S. & B. S.	7-28
27	Dry-dock	New York, N. Y.	S.	7-14
•27	Water system	Prescott, Ariz.	P., S. & B. S.	7-28
Sept.				
2	Road	Harrisburg, Pa.	S. & B. S.	8-11
3	Quay walls, etc.	P'tsmouth, N. H.	S.	8-11
•6	Dam, etc.	Roswell, N. Mex.	S.	7-21
Dec.				
•1	Bridge	Manila, P. I.	P., S. & B. S.	7-28

•Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close.	Work.	Place.	See issue.
Aug. 12.	Electric franchise	Eureka, Cal.	July 28
Aug. 15.	Power house	Moose Jaw, Assa.	July 28
Aug. 15.	Gas producer plant	New Orleans, La.	Aug. 4
Aug. 15.	Power house	Lancaster, Pa.	Aug. 11
	Advertised, Eng. News, July 28.		
Aug. 20.	Electric lighting	Ft. Harrison, Mont.	Aug. 11
Aug. 22.	Electric plant	Burlington, Vt.	July 28
Aug. 22.	Electric light plant	Thomson, Ga.	Aug. 4
	Advertised, Eng. News, Aug. 4 to 25.		
Aug. 26.	Wiring, etc.	Ft. Des Moines, Ia.	Aug. 4
Aug. 31.	Canal power	Chicago, Ill.	July 14
Sept. 1.	Electric wiring	Norwich, Conn.	Aug. 4
Sept. 2.	Power house	Pittsburg, Pa.	Aug. 11

BRIDGES.

Aug. 11. Bridge, superstructure, Boston, Mass......Aug. 4
Aug. 12. Bridge, Spokane, Wash......Aug. 4
Aug. 13. Bridge, Walla Walla, Wash......Aug. 11
Aug. 15. Bridges, concrete, Rockport, Ind......July 28
Aug. 15. Bridge, steel, Atlanta, Ga......July 28
Aug. 15. Bridge, Port Huron, Mich......Aug. 4
Aug. 15. Bridge, Ukiah, Cal......Aug. 4
Aug. 15. Bridges, Ft. Smith, Ark......Aug. 11
Aug. 15. Bridge, stone, Doylestown, Pa......Aug. 11
Aug. 16. Bridge, Marshall, Minn......Aug. 11
Aug. 16. Bridges, Wingham, Ont......Aug. 11
Aug. 16. Bridge, plate girder, West Chester, Pa......Aug. 11
Aug. 16. Bridge, Cortland, N. Y......Aug. 4
Aug. 16. Bridges, Ottawa, Kan......July 28
Aug. 17. Bridge, Tuscola, Ill......Aug. 11
Aug. 17. Bridge, Hailey, Idaho......Aug. 11
Aug. 18. Bridge, South Bend, Ind......July 28
Aug. 19. Bridge, Clarksburg, W. Va......Aug. 11
Aug. 19. Abutments, West Chester, Pa......Aug. 11
Aug. 20. Bridges, Terre Haute, Ind......Aug. 11
Aug. 20. Bridge, Hatboro, Pa......Aug. 11
Aug. 22. Bridge, Newport, Ind......Aug. 4
Aug. 22. Bridges, iron, Jamestown, N. Dak......Aug. 11
Aug. 22. Bridge, La Junta, Colo......Aug. 11
Advertised, Eng. News, Aug. 11 and 18.
Aug. 22. Bridge, steel, Wellington, Kan......Aug. 11
Aug. 23. Bridge, Spokane, Wash......Aug. 11
Aug. 24. Bridges, Paulding, O......Aug. 4
Aug. 25. Bridges, Buffalo, N. Y......Aug. 4
Aug. 27. Bridge, Cincinnati, O......Aug. 11
Sept. 3. Bridge, Celina, O......Aug. 11
Sept. 7. Bridges, iron, So. Bend, Ind......Aug. 11
Dec. 1. Bridge superstructure, Manila, P. I......July 28
Advertised, Eng. News, July 28 to Dec. 1.

BUILDINGS.

Aug. 11. Partitions, plumbing, New York, N. Y......July 28
Aug. 12. Library, Cleveland, O......July 28
Aug. 12. Iron stairways, etc., Buffalo, N. Y......Aug. 4
Aug. 15. Court house, Amarillo, Tex......Aug. 4
Aug. 15. Library, Ripon, Wis......Aug. 4
Aug. 15. Electric wiring, Lawrence, Mass......July 28
Aug. 15. City hall, Moose Jaw, Assa......July 28
Aug. 15. School, East St. Louis, Ill......July 21
Aug. 15. School, Brooklyn, N. Y......Aug. 11
Aug. 15. Depot, Charlotte, N. C......Aug. 11
Aug. 16. Court house, Somerset, Pa......July 28
Aug. 17. Armory, Xenia, O......July 28
Aug. 17. Infirmary, Cincinnati, O......Aug. 4
Aug. 17. School, New Bedford, Mass......Aug. 11
Aug. 17. Building, Chicago, Ill......Aug. 11
Aug. 17. Office building, Philadelphia, Pa......Aug. 11
Aug. 18. Post office, Wausau, Wis......July 14
Aug. 20. Hospital, etc., Ft. Totten, N. Y......July 28
Advertised, Eng. News, July 28 to Aug. 18.
Aug. 20. Brick, building, Portsmouth, N. H......Aug. 4
Aug. 20. School, Martinsville, Va......Aug. 11
Aug. 22. Jail, Sutton, W. Va......Aug. 11
Aug. 22. Court house, Florence, S. C......July 21
Advertised, Eng. News, July 21 and 28.
Aug. 23. Barracks, West Point, N. Y......Aug. 4
Advertised, Eng. News, Aug. 4 to 25.
Aug. 23. Court house, Sullivan, Ill......Aug. 11
Aug. 24. Schoolhouse, Winchester, Ind......Aug. 11
Aug. 25. Court house, Detroit, Mich......Aug. 4
Aug. 25. School, Dawson, Minn......Aug. 4
Aug. 25. Cathedral plans (Foreign), Roumania......July 7
Aug. 27. Hot-water heating, Pt. Townsend, Wash......Aug. 4
Aug. 27. Elec. light fixtures, etc., Ft. Totten, N. Y. Aug. 11
Advertised, Eng. News, Aug. 11 to Sept. 1.
Aug. 29. Post office, Moberly, Mo......July 21
Sept. 2. Foundations, concrete, Pittsburg, Pa......Aug. 11
Sept. 5. Jail, Opelousas, La......Aug. 4
Sept. 6. Post office, Marshalltown, Ia......Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Sept. 7. Barracks, Ft. Douglas, Utah......Aug. 11
Advertised, Eng. News, Aug. 11 to Sept. 8.
Sept. 8. Court house, Minden, La......Aug. 11
Sept. 8. Steam heating, Norwich, Conn......Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Sept. 10. High school, Missoula, Mont......Jun. 30
Sept. 12. Post office, Kankakee, Ill......Aug. 11
Sept. 14. Post office, Laramie, Wyo......Aug. 4
Sept. 15. Post office, Grand Haven, Mich......Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Sep. 17. Schools, etc., Oakland, Cal......July 28

WATER SUPPLY AND IRRIGATION.

Aug. 11. Sand washers, ejector pipes, Phila., Pa......Aug. 4
Advertised, Engineering News, Aug. 4.
Aug. 12. Pumping engine, Kansas City, Mo......July 28
Advertised, Eng. News, July 28 and Aug. 4.
Aug. 12. Tower, tank and reservoir, Libertyville, Ill. July 28
Aug. 15. Meters, Winnipeg, Man......July 28
Advertised, Eng. News, July 28.
Aug. 15. Engine, Waukon, Ia......July 28
Advertised, Eng. News, July 28.
Aug. 15. Franchise, water pipes, Pinole, Cal......July 14
Aug. 16. Reservoir, Manhattan, Kan......Aug. 4
Aug. 16. Laying pipe, Cleveland, O......Aug. 11
Aug. 17. Hydrants, etc., New York, N. Y......Aug. 11
Aug. 17. Reservoir, Hartwell, O......Aug. 4
Aug. 18. Water supply and electric light, Italy......Apr. 21
Advertised, Eng. News, Apr. 14 to May 5.
Aug. 18. Reservoir, pipe, etc., Fort Meade, S. Dak......July 21
Advertised, Eng. News, July 21 to Aug. 18.
Aug. 18. Pipe, valves, etc., Youngstown, O......Aug. 11
Advertised, Eng. News, Aug. 11.
Aug. 19. Meter manholes, Cleveland, O......Aug. 11
Aug. 19. Cast-iron pipe and fittings, Wellsville, O. Aug. 11
Advertised, Eng. News, Aug. 11.
Aug. 20. Water mains, Seattle, Wash......Aug. 11
Aug. 20. Water storage capacity, Ft. Howard Md......Aug. 4
Aug. 21. Water distribution system, Prescott, Ariz. July 21
Advertised, Eng. News, July 21 to Aug. 18.
Aug. 22. Pipe, pumping stations, etc., Crajova, Roumania......July 28
Aug. 22. Water-works, Poland, N. Y......Aug. 4
Aug. 22. Tank and tower, Wharton, Tex......Aug. 11
Aug. 23. Water-works, Wallkill, N. Y......Aug. 11
Advertised, Eng. News, Aug. 11.
Aug. 24. Corporation cocks, etc., New York, N. Y......Aug. 11
Aug. 25. Tank and tower, Columbus, O......Aug. 11
Aug. 27. Distributing system, Prescott, Ariz......July 28
Advertised, Eng. News, July 28 to Aug. 25.
Aug. 30. Cast-iron pipes, Java (Foreign)......July 14
Advertised, Eng. News, July 14 and 28.
Sept. 1. Canal, excavation, Goshen, N. Y......Aug. 11
Advertised, Eng. News, Aug. 11 and 18.
Sept. 5. Stand-pipe, Great Falls, Mont......Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Sept. 6. Water-works, etc., Corinth, Mass......Aug. 4
Advertised, Eng. News, Aug. 4 to 25.
Sept. 12. Water pipe, Victoria, B. C......Aug. 11
Sept. 15. Canals, etc., Montrose, Colo......Aug. 4
Advertised, Eng. News, Aug. 4 to Sept. 15.
Oct. 5. Tunnel, etc., Montrose, Colo......Aug. 4
Advertised, Eng. News, Aug. 4 to Oct. 6.
No date. Water-works, Russellville, Ky......Jun. 23
Advertised, Eng. News, June 23 and 30.

SEWERAGE.

Aug. 11. Sewers, San Diego, Cal......Aug. 4
Aug. 12. Sewers, Buffalo, N. Y......Aug. 4
Aug. 13. Sewer works, East St. Louis, Ill......July 21
Aug. 13. Sewer, Harrisburg, Pa......Aug. 11
Aug. 15. Sewage system, Washington, D. C......July 28
Advertised, Eng. News, July 28 and Aug. 4.
Aug. 15. Sewer system, Delford, N. J......Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Aug. 15. Sewers, water main, Lakewood, O......Aug. 11
Aug. 15. Sewers, Niagara Falls, Can......Aug. 11
Aug. 15. Sewer, Beresford, S. Dak......Aug. 11
Aug. 16. Sewer, Henderson, Ky......Aug. 11
Aug. 16. Sewer, Sandusky, O......Aug. 11
Aug. 16. Sewers, Ingram, Pa......Aug. 11
Aug. 17. Sewers, Springfield, Ill......July 28
Advertised, Eng. News, July 28.
Aug. 18. Sewers, Reading, Pa......July 28
Aug. 19. Sewer pipe, Cleveland, O......Aug. 11
Aug. 20. Sewer, Seattle, Wash......Aug. 11
Aug. 20. Sewers, Lewistown, Pa......July 28
Advertised, Eng. News, July 28 and Aug. 4.
Aug. 20. Sewers, Mount Carmel, Pa......Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Aug. 22. Sewage system, Washington, D. C......July 28
Advertised, Eng. News, July 28 and Aug. 4.
Aug. 22. Sewers, Newton, Ia......Aug. 11
Advertised, Eng. News, Aug. 11 and 18.
Aug. 22. Sewers, Glenville, O......Aug. 11
Aug. 23. Sewer, Monticello, Ind......Aug. 11
Aug. 23. Sewers, Hammond, Ind......Aug. 11
Aug. 24. Sewers, Havana, Ill......Aug. 4
Aug. 27. Sewer system, Laurel, Miss......Aug. 11
Advertised, Eng. News, Aug. 11.
Aug. 29. Main sewer, Canton, O......Aug. 11
Advertised, Eng. News, Aug. 11.
Aug. 31. Sewer work, Dansville, N. Y......Aug. 11
Advertised, Eng. News, Aug. 11 and 18.

STREETS AND ROADS.

Aug. 11. Grading, Oswego, N. Y......July 14
Advertised, Eng. News, July 14 to Aug. 11.
Aug. 11. Paving, Ironton, O......July 28
Aug. 11. Paving, vitrified brick, Des Moines, Ia......July 28
Aug. 11. Curbing, Portland cement, Des Moines, Ia. July 28
Aug. 12. Roads, Albany, N. Y......July 28
Aug. 12. Paving, etc., Dowagiac, Mich......Aug. 4
Advertised, Engineering News, Aug. 4.
Aug. 13. Sidewalks, cement, Yellow Springs, O......Aug. 11
Aug. 15. Paving and curbing, Ottumwa, Ia......Aug. 11
Aug. 15. Sidewalks, Louisville, Ky......Aug. 11
Aug. 15. Paving, etc., Lancaster, O......Aug. 11
Aug. 15. Paving, etc., Glassport, Pa......Aug. 11
Aug. 15. Paving, etc., Attica, Ind......Aug. 11
Aug. 15. Paving, etc., Jersey City, N. J......Aug. 11
Aug. 15. Macadamizing, etc., Oakland, Cal......Aug. 11
Aug. 15. Grading, River Park, Ind......Aug. 11
Aug. 15. Sidewalks, granitoid, Hodgensville, Ky......Aug. 11
Aug. 15. Macadamizing, San Mateo, Cal......Aug. 11
Aug. 15. Paving, etc., Lincoln, Ill......Aug. 11
Aug. 15. Sidewalks, cement, Richmond, Ind......Aug. 11
Aug. 15. Macadamizing, etc., Maywood, N. J......Aug. 11
Aug. 15. Paving, brick, Oberlin, O......Aug. 4
Aug. 16. Paving, etc., Fremont, O......July 28
Advertised, Eng. News, July 28.
Aug. 16. Sidewalks, Henderson, Ky......Aug. 11
Aug. 16. Paving, Montpelier, Ind......Aug. 11
Aug. 16. Paving, Washington, N. C......Aug. 11
Aug. 16. Road, Waynesburg, Pa......Aug. 11
Aug. 16. Paving, New Rochelle, N. Y......Aug. 11
Advertised, Eng. News, Aug. 11.
Aug. 16. Macadamizing, Springfield, O......Aug. 11
Aug. 16. Paving, asphalt, New Brighton, N. Y......Aug. 11
Aug. 17. Grading, Newburgh, O......Aug. 11
Aug. 17. Paving, etc., Chicago, Ill......Aug. 11
Aug. 17. Paving, New York, N. Y......Aug. 11
Aug. 17. Paving, brick, Mt. Gilead, O......Aug. 4
Aug. 18. Paving, asphalt, Columbus, Ind......Aug. 4
Advertised, Engineering News, Aug. 4.
Aug. 18. Paving, brick, Minerva, O......July 21
Aug. 18. Road, Gunnison, Colo......Aug. 11
Aug. 18. Paving, Columbus, Ind......Aug. 11
Aug. 18. Macadamizing, etc., Covington, O......Aug. 11
Aug. 20. Paving, asphalt, Des Moines, Ia......Aug. 11
Aug. 20. Walks, Fort Du Pont, Del......Aug. 11
Advertised, Eng. News, Aug. 11 and 18.
Aug. 20. Macadamizing, etc., Haskins, O......Aug. 11
Aug. 20. Road, gravel, Winamac, Ind......Aug. 11
Aug. 22. Macadamizing, Bowling Green, O......Aug. 11
Aug. 22. Roads, Harrisburg, Pa......Aug. 11
Aug. 25. Paving and curbing, Wellsville, N. Y......Aug. 11
Advertised, Eng. News, Aug. 11 and 18.
Aug. 25. Paving, etc., Salisbury, N. C......Aug. 11
Advertised, Eng. News, Aug. 11 and 18.
Aug. 25. Paving brick, Jerseyville, Ill......Aug. 4
Aug. 26. Paving, vitrified brick, Cincinnati, O......Aug. 11
Aug. 29. Roads, Bowling Green, O......Aug. 11
Aug. 29. Paving, etc., Cambridge, O......Aug. 11
Aug. 29. Macadamizing, Oshkosh, Wis......Aug. 11
Aug. 29. Paving, etc., Norfolk, Va......Aug. 11
Advertised, Eng. News, Aug. 11 and 18.
Aug. 31. Graveling, Wapakoneta, O......Aug. 11
Aug. 31. Paving, etc., Cincinnati, O......Aug. 11
Aug. 31. Roads, Cleveland, O......Aug. 11
Sept. 1. Roads, Fort Du Pont, Del......Aug. 11
Advertised, Eng. News, Aug. 11 and 18.
Sept. 2. Road, Harrisburg, Pa......Aug. 11
Sept. 5. Macadamizing, Glenville, O......Aug. 11
Sept. 15. Paving, brick, Barnesville, O......Aug. 11
Oct. 3. Road, Yuma, Ariz......Aug. 11
No date. Paving, brick, Morris, Ill......July 21
Advertised, Eng. News, July 21 to Oct. 13.

MISCELLANEOUS CONTRACTS.

Aug. 11. Iron, boilers, etc., New York, N. Y......Aug. 4
Aug. 11. Dam, Harrisonburg, Va......Aug. 4
Aug. 12. Drainage ditch, Sterling, Ill......Aug. 4
Aug. 12. Wreck removal, Boston, Mass......July 21
Advertised, Eng. News, July 21 to Aug. 18.
Aug. 15. Shore protection, Richmond, Va......July 21
Advertised, Eng. News, July 21 to Aug. 18.
Aug. 15. Rolling stock, Siam (Foreign)......Apr. 21
Aug. 15. Canal, bridges, etc., Port Huron, Mich......July 28
Advertised, Eng. News, July 28 and Aug. 4.
Aug. 15. Repairing ice breaker, Peru, Ill......Aug. 4
Advertised, Engineering News, Aug. 4.
Aug. 15. Earth dam, Sacramento, Cal......Aug. 4
Aug. 15. Coal pocket, pump, generator, etc., East Orange, N. J......Aug. 4
Advertised, Eng. News, Aug. 4.
Aug. 15. Ditch and tile, Kangley, Ill......Aug. 11
Aug. 15. Smokestack, Joliet, Ill......Aug. 11
Aug. 16. Wharf, New Orleans, La......Aug. 11
Aug. 16. Fire cisterns, Dayton, O......Aug. 11
Aug. 16. Manila rope, lumber, New York, N. Y......Aug. 11
Aug. 16. Sluice gates, etc., New York, N. Y......Aug. 4
Aug. 16. Manila rope and pine lumber, New York......Aug. 4
Aug. 16. Wharves, Cuba......July 28
Aug. 16. Fire brick, pig iron, etc., Washington, D......July 21
Aug. 17. Locks, dams, Vicksburg, Miss......Jun. 16
Advertised, Eng. News, Jun. 16 to July
Aug. 17. Locks and dams, Vicksburg, Miss......Jun. 23
Advertised, Eng. News, Jun. 23 to Aug.
Aug. 17. Drainage ditch, Brodhead, Wis......Aug. 4
Aug. 18. Stone placing, Portland, Me......July 21
Advertised, Eng. News, July 21 to Aug.
Aug. 18. Boiler, Youngstown, O......Aug. 11
Advertised, Eng. News, Aug. 11.
Aug. 19. River work, Wellsville, O......Aug. 11
Advertised, Eng. News, Aug. 11.
Aug. 20. Wreck removal, Wilmington, Del......July 21
Advertised, Eng. News, July 21 to Aug. 18.
Aug. 20. Street sweeping, Evansville, Ind......Aug. 11
Aug. 22. Canal, New Orleans, La......July 14
Aug. 23. Machine tools, Washington, D. C......July 21
Aug. 24. Excavating, cofferdams, Chicago, Ill......Jun. 30
Aug. 24. Sea wall, Galveston, Tex......July 28
Advertised, Eng. News, July 28 to Aug. 25.
Aug. 25. Cement, Minidoka, Idaho......July 21
Advertised, Eng. News, July 21 to Aug. 18.
Aug. 27. Dry-dock, New York, N. Y......July 14
Aug. 31. Ditch, levees, etc., Columbus, O......Aug. 11
Advertised, Eng. News, Aug. 11 to Sept. 1.
Sept. 1. Levees, sewers, etc., Memphis, Tenn......Aug. 4
Advertised, Eng. News, Aug. 4 to Sept. 1.
Sept. 1. Garbage removal, etc., Philadelphia, Pa......Aug. 11
Sept. 3. Quay walls and pier, Portsmouth, N. H. Aug. 11
Sept. 5. Elevator, etc., Washington, D. C......Aug. 11
Advertised, Eng. News, Aug. 11.
Sept. 6. Dump boat, St. Louis, Mo......Aug. 11
Sept. 6. Dam, etc., Roswell, N. Mex......July 21
Advertised, Eng. News, July 21 to Sept. 1.
Sept. 8. Lock gates and anchorages, Pittsburg, Pa. Aug. 11
Advertised, Eng. News, Aug. 11 to Sept. 8.
Sept. 9. Steel, iron, etc., Chicago Ill......Aug. 11
Advertised, Eng. News, Aug. 11 to Sept. 8.
Sept. 10. Window and door screens, Prescott, Ariz. Aug. 4
Advertised, Eng. News, Aug. 4 to Sept. 1.
Sept. 22. Library stack work, New York, N. Y......Aug. 11
Oct. 15. Plans for harbor, Sweden (Foreign)......Apr. 21

Write our advertisers when you intend to buy your supplies and machinery for improvements, or for carrying out your contracts. If you do not find what you want in our advertising pages write us for list of firms, and we will put you in communication with them at once.

RAILWAYS.

ALABAMA.—Mobile, Ala., Commercial Club, J. Paul Wilson, Secy., is to take up matter of a railroad from Kansas City via Springfield, Mo., Little Rock and Vicksburg, Miss., to Mobile.

ALBUQUERQUE EASTERN.—Contracts for poles, piling and bridge timber for this road are stated to have been let to Eugenio Romero, Las Vegas, N. Mex., and G. O. Fletcher, Santa Fe, N. Mex.

ATLANTIC COAST LINE.—Permission has been granted by the Railroad Commission to purchase and operate the Jacksonville & Southwestern Ry., now operated from Jacksonville to Newberry, Fla. It is stated officially that the road will be extended into western Florida, possibly to Tallahasse. The Jacksonville & Southwestern recently built shops at Jacksonville, and these will be enlarged. E. B. Pleasants, Wilmington, N. C., is Ch. Engr.

BALTIMORE & OHIO.—Plans have been matured, it is stated, to spend $2,000,000 in Philadelphia and other cities in the improvement of terminal facilities.

BAYFIELD, LAKE SHORE & WESTERN.—It is stated that grading on the first 15 miles of this road which is being built from Bayfield, Minn., to Duluth, has been started at the former place, and it is planned to finish the line to Cornucopia, 15 miles, this season. The remaining 55 miles are to be finished before the end of next year. This company was recently organized at Bayfield, Minn., with T. J. Stevenson, Pres., and H. C. Hale, Secy.

BIG BEND R. R.—Spokane, Wash., reports state that Seattle capital and the Big Bend farmers will build the Big Bend R. R., a standard gage steam road from Ephrata, Wash., northerly to the Columbia River, a distance of 95 miles. A. Bettes has been at work on the project for some time. The capital stock will be $1,000,000.

CANADIAN PACIFIC.—It is announced that $8,000,000 will be expended in constructing the new line from Sudbury to Toronto, touching en route a port on Georgian Bay at Byng inlet. At this point docks and warehouses are to be constructed and the line will be made a feeder for lake transit lines under Canadian Pacific control. The new line will be built at once. The Tilsonburg, Port Burwell & Pacific Ry. has been acquired and the construction of new car ferry steamers and the establishment of a lake ferry line between Port Burwell, Ont., and Cleveland and Conneaut, O., on the American side, is contemplated.

CARAQUET RY.—Toronto, Ont., capitalists, including Peter Ryan and T. P. Coffee, have secured control of this road and the Gulf Shore, with intention of putting the roads in good shape and equipping them with new rolling stock. The Gulf Shore Ry. is 17 miles long and A. J. H. Stewart, Bathurst, N. B., is Gen. Mgr. The Caraquet Ry. is 71 miles long and P. J. Burns, Bathurst, N. B., is Gen. Mgr.

CINCINNATI, HAMILTON & DAYTON.—It is reported that this road will build a branch line from Dayton, O., to Richmond, Ind. Moves on the part of the engineering force indicate this. Object is to connect the coal section of southern Ohio with the Chicago, Cincinnati & Louisville, which it recently acquired. C. A. Wilson, Cincinnati, O., is Ch. Engr.

COLUMBUS, MEMPHIS & PENSACOLA.—Columbus, Miss., reports state that Newman Cayce, Pres. of this road, which was chartered about a year ago, is endeavoring to have the "Frisco" construct the line. Preliminary surveys have been made and right of way for 20 miles has been secured, as have terminals in Columbus.

EDGEWATER & FORT LEE.—New York State Board of Riparian Commissioners have granted this road a renewal for two years of the permit to build a railroad along the Hudson River Shore from Edgewater to Fort Lee. The proposed road, it is said, will be an extension of the New York, Susquehanna & Western system.

FLINT & PERE MARQUETTE.—Surveys are stated to be under way for new belt line around Detroit, Mich., to be controlled by this line. The road will be about 25 miles long and will cost about $500,000, exclusive of rolling stock, docks, stations, etc.

ILLINOIS CENTRAL.—The Illinois Central Railroad Co. has filed for record a trust deed on twelve of its branch lines in Illinois and Indiana to secure a loan of $20,000,000 made by the Union Trust Co., of New York, and Joel E. Williamson, of Evansville, Ind.

KANSAS CITY, MEXICO & ORIENT.—To provide for the construction of this road, A. E. Stillwell, its Pres., of Kansas City, Mo., has formed the Union and International Construction Companies. The Union Construction Co. will build 420 miles of the road, from Kansas City to Lone Wolf, Okla., of which 110 miles have been completed and are in operation, while about 15% of the balance is graded. The International Construction Co. will build 1,200 miles, from the south line of Oklahoma to Topolobampo, Mex. Over 100 miles are in operation, and about 300 more have been graded.

KANSAS & SOUTHERN.—Smith Bros., of Beatrice, Neb., who recently bought this road, which is ten miles long and runs from Westmoreland to Blaine, Kan., are said to have made plans to extend the line south to a connection with the Rock Island at Alma and to Emporia to meet the Santa Fe. The line will also be built north to Fairbury to connect with the junction of two more Rock Island lines. O. J. Collman, Beatrice, has been appointed general manager of the line, and work, it is said, will begin at once on the extension.

LAKE ERIE & PITTSBURG.—Pittsburg, Pa., reports state that engineers for this road have completed the surveys for a new line, which it is expected will be opened for business by this time next year. Land has been purchased for terminal facilities at Lorain, O., and the right of way from that place to Youngstown, O., has been secured, and most of the work on that portion of the road completed as far as the Cuyahoga River. It was officially announced that a separate line will be built from Youngstown, O., to Pittsburg. William E. Kennefick, Kansas City, Mo., is Pres.

LEHIGH COAL & NAVIGATION CO.—This concern, which on Sept. 1 assumes the ownership of the Nesquehoning Valley R. R., has planned extensive improvements to its shops at Lansford. A locomotive and machine shop and a new power house are the more important ones. Work will be started upon them as soon as the specifications are completed by the company's engineers.

LOUISVILLE & NASHVILLE.—Over 1,000 acres of land at Latonia (near Cincinnati, O.) have been secured, it is stated, for a new yard.

LOWVILLE & BEAVER RIVER.—James T. Campbell, Lowville, N. Y., has secured contract for construction of this road ready for rolling stock. Charles Del Papa, Watertown, N. Y., and M. Del Papa, Elmira, N. Y., will furnish the labor.

McRAE & DUBLIN.—Construction of this road is to be commenced at once, according to reports from McRae, Ga., where a meeting was held recently, as a result of which C. B. Parker was chosen Pres., and E. F. McRae Secy.

MINERAL POINT & NORTHERN.—Grading on this road has been begun between Mineral Point and Linden. D. E. Shugert, Nevada, Ia., holds the contract for the 24 miles of grading between the two places.

MISSOURI, KANSAS & TEXAS.—Columbus, Mo., reports state this road is preparing to build a branch line from Mokane, Mo., through Fulton, in Callaway County, and Columbia, to Boonville, Mo. The proposed extension will connect with the main line at Boonville and in this way will tap the coal fields of Callaway and Boone Counties.

NEW YORK CENTRAL & HUDSON RIVER.—Surveyors are stated to be busy on preliminary work for the enlargement of the yards at West Albany, N. Y. It is reported that ten additional miles of track will be laid.

NEW YORK, NEW HAVEN & HARTFORD.—Plans for four-tracking the road through "the cut" at the eastern entrance to the city, and which will involve the expenditure of $2,000,000, have been submitted to the municipal authorities of New Haven, Conn.

OKLAHOMA.—Sixteen railroads with a total capital stock of $120,750,000 were chartered in this territory during the past fiscal year, according to the report of William Grimes, Secretary of Oklahoma. The roads are as follows: Arkansas Valley & Gulf Ry., $4,000,000 capital stock; Blue Island, Riverdale & Hammond (Street), $1,500,000 capital stock; Cheyenne & Washita Valley, $250,000; Chickasaw & Northeastern, $5,000,000; Dominion & Gulf R. R. Co., $50,000,000; Denver, Woodward & Southeastern, $20,000,000; Guthrie, Fairview & Western, $13,500,000; Great Eastern & Great Western, $10,000,000; Kansas City, Oklahoma & Houston, $15,000,000; Kansas, Elk City & Texas, $2,000,000; Missouri & Oklahoma Central, $5,000,000; Oklahoma & Cherokee Central, $2,000,000; Oklahoma, Roswell & White Mountain, $5,000,000; Oklahoma City, $1,000,000; Oklahoma City, Lexington & Sulphur Springs (Electric), $1,000,000; South McAlester, Red River and Gulf, $2,000,000; Shawnee & Northeastern, $500,000.

OKLAHOMA & CHEROKEE CENTRAL.—Pryor Creek, Ind. T., has raised a $25,000 bonus and this road will build a line to that place.

QUEBEC, NEW BRUNSWICK & NOVA SCOTIA.—Plans have been filed with the Dominion Railway Department, Ottawa, Ont., for building this road from Quebec, through Maine, New Brunswick and Nova Scotia on to Country Harbor, 105 miles east of Halifax. The charter is owned by McKenzie & Mann.

SAN PEDRO, LOS ANGELES & SALT LAKE.—Final contract for construction of this road is stated to have been let to Utah Construction Co., Ogden, Utah. This contract covers a section of the road extending from Las Vegas, a distance of 46 miles, to the end of the California contract.

SOUTHERN PACIFIC.—It is reported that the Southern Pacific R. R. has decided to build a cut-off 27 miles in length from a point eight miles north of Wabuska to Hazen, seven miles east of Reno, Nev.

TENNESSEE.—W. J. Oliver & Co., Knoxville, Tenn., have been awarded the contract to build a railroad from Bay Minett to Fort Morgan, Ala., along the Gulf of Mexico, a distance of 62 miles.

TEXAS.—D. L. Bourland, of St. Louis, Mo., and Chicago, Ill., has submitted a proposition to Seguin, Tex., in which he agrees to build a standard gage road from some point on the International & Great Northern, Missouri, Kansas & Texas, between New Braunfels and San Marcos to Seguin, thereby connecting three trunk lines, if Seguin will give his associates the right of way and $20,000 bonus.

UNION PACIFIC.—This road, according to reports, will build a cut-off from Marysville, Kan., to Topeka, Kan., and in future will operate through passenger trains from Kansas City to the Pacific coast over the main line. The cut-off will necessitate about 100 miles of new track from Topeka to Marysville.

VERMONT.—E. B. Ellis Granite Co., Northfield, Vt., will, it is stated, build a six-mile railroad at a cost of about $50,000 from Bethel, Vt., to the granite quarries near that town.

YREKA & SCOTT VALLEY.—Preliminary surveys are being made for this road and the contract for building and equipping the road from Yreka to Etna, Cal., is stated to have been let to the New York Construction & Development Co., which was organized for that purpose. John E. Harmon is Pres. of the construction company and John E. Firmstone, Secy., according to Yreka, Cal., reports.

WEST VIRGINIA.—Surveys are being made for a railroad down Cheat River to Rowlesburg, W. Va. Robert F. Whitmer, Philadelphia, Pa., is reported interested.

NEW INCORPORATIONS AND CHARTERS.

BUFFALO & SOUTHEASTERN.—N. Y.—Incorporated with $400,000 capital and headquarters at East Aurora, N. Y., to construct railroad from Buffalo to East Aurora. Fay H. Ball, E. Eugene Henshaw and Densmore Pratt are directors.

MISSOURI & ILLINOIS BRIDGE & BELT R. R.—Ill.—Chartered with capital stock of $2,500,000 to build 15-mile line. Joseph Ramsey, Jr., Oscar Murray, George J. Gould are directors.

RICHMOND, RAPPAHANNOCK & EASTERN.—Va.—Incorporated with headquarters at Richmond, Va., to build railroad from Richmond east to Urbanna. L. P. Routt, Richmond, is Secy.

ST. JOSEPH, ALBANY & DES MOINES.—Mo.—Incorporated with capital stock of $800,000 to build and operate a standard gage railroad from St. Joseph to Des Moines, Ia., passing through the counties of Buchanan, DeKalb, Gentry, Worth and Harrison, a distance of 80 miles.

STREET AND ELECTRIC RAILWAYS.

MYSTIC, CONN.—At a special meeting of the stockholders of the Groton & Stonington Street Ry. Co., it was voted to make an issue of 5% gold bonds, not to exceed the amount of $375,000, in order to complete the construction and equipment of trolley line which the company is building. Thomas Hamilton, of Groton, is Pres.

BUFFALO, N. Y.—The Buffalo & Southeastern Ry. Co. has incorporated, with a capital of $300,000, to operate a street railway line from the village of East Aurora to Buffalo, passing through Spring Brook and Ebenezer, a distance of 12 miles. The directors are: Fay H. Ball, E. E. Henshaw, Densmore Pratt, and James Cadzaw, of East Aurora; T. S. Miller, B. J. Cole, J. B. Kennedy and O. R. Blair, of Buffalo, and J. L. Baker, of Ithaca.

POTTSTOWN, PA.—The Schuylkill Valley Traction Co. has secured the necessary right of way to build an extension to Pottstown.

SALISBURY, MD.—Contracts aggregating over $500,000 have been let for construction of a trolley line from Garrett, Pa., to Frostburg, Md., 25 miles. The company, which is incorporated as the Meyersdale & Salisbury Railroad, proposes furnishing light and power to a dozen Pennsylvania towns, and eventually operating a passenger line from Johnstown, Pa., to Cumberland, connecting with the Cumberland and Westernport system at Frostburg. The Central power plant will be at Boynton, work on which will be started at once. A part of the system will be in operation by next spring. The main contract was awarded to Thomas Deegan & Co., of Philadelphia, and 12 miles of the construction work will be done by J. J. Houghton, of Allegheny, Pa. The company is negotiating, it is stated, for the purchase of the Cumberland and Westernport line, over 20 miles long. The company is capitalized at $1,500,000, and it is understood that before the road is in operation about $800,000 will have been expended. The company intends to furnish light and power to mines, although the bulk of contracts will be municipal. The line will touch Meyersdale, Boynton and Salisbury before reaching Frostburg. The officers of the company are: Orran W. Kennedy, of Uniontown, president; H. L. Borland, president of the Union Realty Co., Pittsburg, treasurer, and W. J. Ward, secretary. The directors are: H. J. Lindsay, Wm. Gibson, J. W. Pryale and S. M. Graham, of Pittsburg.

JACKSON, MISS.—A company has been organized in the southwestern part of the state to build an electric line from Fort Adams to Centreville via Woodville. The company is calitalized at $500,000, and will shortly submit its charter to Governor Vardaman for approval. Several propositions from capitalists have been received to purchase the bonds of the road, and its construction seems to be a certainty.

JACKSON, MISS.—The Governor has issued his proclamation incorporating the Greenville & Leland Electric Railroad, which proposes to build a line from Greenville to Leland, in Washington County. The incorporators are Morris Rosenstock, of Greenville; J. W. Thompson, of Leland, and others.

CLEVELAND, O.—It is expected that the City Council will pass the ordinance granting permission to the Cleveland Electric Ry. Co. to extend its line of double track street railroad in Woodland Hills Ave. from Harvard St. to Broadway and from Union to Kinsman Sts. and from South Woodland Ave. to Fairmount St.; thence in Fairmount St. to Euclid Ave., and from Euclid Ave. in Doan St. to Superior St.; and further granting to the company the right to extend its lines from the city limits to Southern Ave. to connect with the present tracks in Woodland Ave. J. J. Stanley is Gen. Mgr.

WAPAKONETA, O.—A number of capitalists in this part of the state are planning a new electric line to run between Defiance and this city, or between Defiance and St. Marys. Two preliminary surveys have been made between the three points. The lines as proposed pass through territories not yet traversed by any other railroads.

MARION, IND.—A new electric line is being projected between Marion and Logansport, via Peru. J. W. Wilson, of Fort Wayne, and Herbert L. Mossrock, of Logansport, are said to be pushing the project. It is proposed to run the road through Somerset and Peoria, en route to Peru, and then west over the Ft. Wayne & Wabash Valley Traction line. It is believed that work will be commenced by Oct. 1.

SPRINGFIELD, ILL.—The Danville & Northern Railroad Co. was incorporated, capital stock for the present being $25,000. It is proposed to build a railroad from the southern line of Vermillion County to the northern line of Will County. The incorporators and first board of directors are L. E. Fisher, Geo. T. Buckingham, W. V. Dysart, Robt. Parks and Geo. Fisher, all of Danville, Ill.

DES MOINES, IA.—A survey is soon to be commenced by the Interurban Electric Ry. Co., of Des Moines, for an electric line from Des Moines to Boon, which they contemplate constructing next season. F. C. Cummins is Ch. Engr.

MARSHALLTOWN, IA.—E. A. Ferrin, Gen. Mgr., Marshalltown Electric Street & Interurban Ry. Co., writes us that the survey for the proposed line to Waterloo, 30 miles, is under way. Franchises and right of way have been obtained. $100,000 in taxes was voted by the city to aid the construction.

SIOUX CITY, IA.—According to rumors at the Iowa division headquarters of the Rock Island system, the company is making careful investigations looking to the equipment of sections of its lines for trolley service. It is stated that the plan is to use the same track for through trains, freights and local electric trains. The company's motive is a desire to spoil the plans of electric road companies that are planning a series of interurban lines to extend across the state from Davenport to Council Bluffs, closely paralleling the Rock Island tracks, taking in the best towns and greatly reducing passenger and freight business.

MINNEAPOLIS, MINN.—The Council of White Bear village has granted a 25-year franchise to the Twin City Rapid Transit Co. for construction of a line between the village and Wildwood. W. D. Dozier is Ch. Engr.

KANSAS CITY, MO.—A new electric railroad company, known as the American Investment & Development Co., has been formed in Kansas City. It is composed of Gen. Nelson A. Miles, president; P. H. Coney, of Topeka, vice-president; Fred R. Waters, of Kansas City, secretary, and John R. Mulvane, of Topeka, treasurer. The company expects to build an electric line from Kansas City to Jefferson City, thence to Springfield, and then back to Kansas City. The company will be incorporated under the laws of the District of Columbia for $500,000.

OCEANSIDE, CAL.—An application for a franchise for an electric railway on a number of streets of this town has been laid before City Trustees by F. E. Burlew, of Los Angeles.

LIGHT, HEAT AND POWER PLANTS.

HARTFORD, CONN.—The directors of the Hartford Electric Light Co. have decided to erect a new power plant at Dutch Point, which will contain a complete steam equipment.

HADDONFIELD, N. J.—(See Water-Works.)

KINGSTON, N. Y.—Negotiations are now under way for the purchase of the village of Glenerie, six miles north of Kingston, with all the land bordering the Esopus Creek for a distance of several miles on either side of the village, will be completed within a few weeks, and the erection of a big electric power and light plant will be begun.

FORT HARRISON, N. J.—Bids are asked by J. C. Jenks, Q. M., until Aug. 20 for installing electric lighting system.

PENNSGROVE, N. J.—The Pennsgrove Gas Co. has incorporated with $10,000 cap. stock for the purpose of establishing a gas plant here. Jos. D. Whitaker is Pres.

NEWARK, N. J.—The Public Service Corporation of New Jersey has entered into a contract with Franklin D. Hyde, 5 East 42d St., New York, for construction of a power plant. Brick and steel, 500 × 200 ft.; est. cost, $75,000. Frederic W. Evans, 776 Broad St., is Secy.

MAHANOY CITY, PA.—The People's Electric Light, Heat & Power Co., care of D. M. Graham, is having plans prepared for an electric light plant at this place.

LANCASTER, PA.—Plans and specifications for constructing proposed power house of Millstone Water & Power Co., on Conestoga River, are on file at office of Engineering News, 220 Broadway, New York. It has been decided to extend time of opening bids from Aug. 8 to Aug. 15. The above work was advertised in Engineering News of July 28.

PITTSBURG, PA.—Bids are asked by Wm. L. Sibert, Maj. Engrs., until Sept 2 for building a power house at Dam No. 2, Ohio River.

DANVILLE, VA.—We are informed that bids will probably be received Oct. 1 by the Danville Railway Electric Co. for water power plant of hydro-electric transmission, 1800 H.P., seven and nine miles from two power stations for railway and power service. Ladshaw & Ladshaw are Engrs.

BELTON, S. C.—The Belton Power Co. has been organized with a capital of $100,000, for developing power from the Saluda River and transmitting it to established cotton factories and the mills to be built in this section. Electricity for lighting the town and supplying the power to furnish water will also be supplied. B. A. Lewis, the vice-president of the company, will arrange for a cotton mill, which will be operated in connection with the plant. The new cotton mills will have 25,000 spindles. The Belton Mills and the Williamston Mills, at Williamston, S. C., have already contracted to use power furnished by the new concern.

STILLMORE, GA.—W. J. Lightfoot will establish an electric light plant here.

TAMPA, FLA.—The Tampa Electric Co. will, it is stated, erect an extensive power plant.

BRIGHTON, ALA.—The City Council is considering the installing of electric lights in Brighton.

DECATUR, ALA.—J. L. Echols and associates are contemplating erecting a $15,000 electric light plant for this city.

LUVERNE, ALA.—An electric light plant will be erected here at a cost of $10,000. Address the Mayor for information.

MACON, MISS.—An electric light plant will be established here by the city. Address the Mayor.

OXFORD, MISS.—The city will issue $8,000 in bonds for the erection of an electric light plant. The Mayor can inform.

NEW ALBANY, MISS.—The city has voted to issue bonds for the erection of an electric light plant.

CLINTON, MISS.—An electric light plant will be established here.

PLAQUEMINE, LA.—The Town Council has granted a franchise to the Ewing-Merkle Electric Co., of St. Louis, Mo., to erect an electric light plant.

COVINGTON, KY.—An electric light plant will be established here. The city will advertise for the sale of $75,000 bonds.

ST. IGNACE, MICH.—The Common Council has submitted to a vote of proposition to bond the city for $15,000 for the purpose of securing funds with which to build an electric plant.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

MILWAUKEE, WIS.—The Milwaukee Electric Railway & Light Co. has taken out a permit for a $100,000 power station to be erected as an addition to present plant. H. J. Esser, the company's architect, drew the plans.

STONE CITY, IA.—The owners of the quarries are planning to build a solid masonry dam, and will put in an electric plant, which, when completed will run their large stone crusher and other machinery with electric instead of steam power. They also intend to furnish electric light and power in Anamoso and other neighboring towns.

WEBSTER, IA.—The town has voted for a municipal gas plant.

ST. JOSEPH, MO.—The citizens will vote on a $75,000 bond issue for the purpose of rebuilding the electric light plant and extending the lighting system.

ARLINGTON, TEXAS.—The Arlington Light & Power Co. has been organized for the purpose of installing and operating an electric light and power plant here. It has a capital stock of $10,000. Wm. Dugan is one of the incorporators.

EUREKA, CAL.—The power plant of the Eureka Lighting Co., which was recently destroyed by fire, entailing a loss of from $60,000 to $100,000, will be replaced by a much larger and more substantial plant.

SANTA CRUZ, CAL.—Fred W. Swanton is reported to be at the head of a new company which intends to erect a gas plant here. The stockholders will consist mainly of men now interested in the Co-operative Light & Power Co. The capital stock will be placed at $100,000. Negotiations are under way for a high pressure gas plant and piping; cost about $60,000.

OAKLAND, CAL.—It has been decided by the Southern Pacific officials to erect a Pintsch gas plant on the present site of the shipyards at the foot of Cedar St.

BRIDGES.

HATBORO, PA.—Bids are asked until Aug. 20 for construction of a 3-arch bridge over Pennypack Creek on Moreland Ave. Robt. C. Miller, County Clk., Morristown.

ZELIENOPLE, PA.—Nelson & Buchanan, Chambersburg, have been awarded the contract for erecting for the state a bridge at Zelienople, Butler County. They will be paid $47,600 for the structure.

DOYLESTOWN, PA.—Bids are asked by County Commissioners until Aug. 15 for constructing a stone arch bridge over Core Creek. T. A. Crouthamel, County Clk.

READING, PA.—Plans for two bridges to be built by the Reading Ry. Co. over Pennypack Creek, near Bustleton, were approved by Board of City Surveyors.

WEST CHESTER, PA.—Bids are asked by J. E. Quay, J. J. Hickman and S. S. Bossert, Comrs., until Aug. 19 for the erection of stone abutments and wing walls for a steel plate girder bridge over French Creek, South Coventry Township.

WEST CHESTER, PA.—Bids are asked by the Commissioners until Aug. 16 for the erection of a steel plate girder bridge over French Creek in South Coventry Township.

HARRISBURG, PA.—The following were the thre lowest bids received by Board of Public Buildings and Grounds Aug. 2 for constructing a bridge over Connoquessing Creek in Butler County: Eyre Const. Co., Philadelphia, $48,178; Nelson & Buchanan Co., Chambersburg, $47,000; Horn & Neff, Slatington, $48,750.

WEST CHESTER, PA.—Patrick McCormick was awarded the contract for constructing a 2-arch bridge over Muddy Run, at $1,848.

NEW CASTLE, PA.—The Climax Road Machine Co., of Marathon, N. Y., through its Pittsburg office has closed a contract with Lawrence County for construction of five steel highway bridges; also for the remodelling and moving a 150-ft. span and building a new 80-ft. span in connection with same.

HAGERSTOWN, MD.—The project to erect a $70,000 bridge across the Potomac River at Williamsport has been revived and the Board of County Commissioners have been asked to subscribe to half of the stock. The Board has the matter under consideration.

GILMERTON, VA.—Under the plan of local improvements contemplated by the Norfolk & Western Railroad will be the widening of the bridge across the Southern branch of the Elizabeth River at Gilmerton. The bridge will be widened 20 ft. and a new draw will be put in, costing $90,000. Plans have already been prepared. C. S. Churchill, of Roanoke, is Ch. Engr.

CLARKSBURG, W. VA.—Bids are asked until Aug. 19 by Chas F. Holden, Clk. County Court, for construction of a bridge across Patterson's Fork. Plans and specifications on file in Clerk's office.

MONTGOMERY, ALA.—The Montgomery Bridge Co. has incorporated with $150,000 cap. stock. The company will soon take steps to build a steel highway toll bridge across Alabama River. H. E. Williams, of Chicago, is Pres.

COLUMBIA, LA.—The Parish jury will construct an iron bridge across the Ouachita River at this point, to cost $35,000 or $40,000.

COLUMBIA, LA.—The police jury of Caldwell Parish has decided to build a bridge over the Ouachita River at this place and will advertise for plans, specifications and bids within the next 30 days.

FREMONT, O.—County Commissioners rejected all bids received for a new stone arch bridge over Flag Run Creek.

CINCINNATI, O.—Bids are asked by Hamilton County Commissioners until Aug. 27 for masonry and repair to approaches at bridge over Little Duck Creek, Columbia Township. Eugene L. Lewis, County Audr.

CANTON, O.—Edward J. Landor, City, was awarded contract for constructing steel and concrete bridge, 324 ft. long, between Canal, Dover, and New Philadelphia for the Commissioners of Tuscarawas County.

CELINA, O.—Bids are asked by Mercer County Commissioners until Sept. 3 for construction of the substructure and superstructure for a steel bridge over the Wabash River, one span, length 120 ft., with 16 ft. roadway. T. A. Weis, County Audr.

BROWNSTOWN, IND.—The Commissioners of Jackson County have awarded the contract for construction of seven bridges, six to the New Jersey Bridge Co. and one to the Indiana Bridge Co., of Indianapolis.

TERRE HAUTE, IND.—Bids are asked until Aug. 20 by County Commissioners for constructing concrete arches in Otter Creek, Nevins and Fayette Townships; for constructing Woods steel bridge, approaches to Hoffman bridge in Nevins Township and approaches to O'Connell bridge in Lost Creek Township; also for changing Concannon gravel road and rebuilding river road in Sugar Creek Township. Jerome W. Denehie, County Audr.

SOUTH BEND, IND.—Bids are asked by St. Joseph County Commisioners until Sept. 7 for construction of two iron bridges and one concrete culvert. Plans and specifications on file in office of John W. Harbou, County Audr.

DETROIT, MICH.—At a special meeting of the County Council by-laws were passed to raise $30,000 for six county bridges.

TUSCOLA, ILL.—Bids are asked until Aug. 17 for the erection of an 80 × 14 ft. highway bridge. Plans and specifications may be seen at the office of W. E. Price, City.

CHAMPAIGN, ILL.—The contract for the Camp Creek bridge was let to the Pan-American Bridge Co., of New Castle, Ind., for $3,911. The contractor sublet the concrete work to Mr. Ball, of Bement, at $7.60 per yd.

ROCK ISLAND, ILL.—The following were the three lowest bids received by Council for rebuilding of bridge across Rock River; Bellefontaine (O.) Bridge & Iron Co., $15,121, extra concrete, $9 per cu. yd.; Lafayette Engineering Co., $14,999, extra concrete, $9 cu. yd.; Clinton Bridge & Iron Works, $14,765, concrete for abutments, $18.75 per yd.

SOBIESKI, WIS.—J. J. Hof, Secy. J. J. Hof Land Co., informs us that bids received for constructing a concrete highway bridge across Little Snamico River were rejected as being too high. New bids may be received or have work done by day labor.

OSHKOSH, WIS.—At a meeting of the Common Council, July 26, it was decided to rebuild the Main St. bridge. Karl L. Lehman, Consult. Engr., 910 Opera House Bldg., Chicago, Ill., writes us that he will prepare plans and specifications for the work. The bridge is about 440 ft. long, 47 ft. wide, consisting of two fixed spans and one draw span with three piers and two abutments. Cost, $100,000. Plans for substructure will be ready in about two weeks and bids will be advertised for.

DES MOINES, IA.—City Engineer Budd is having plans prepared for a north approach to the new Melan bridge at Sixth Ave., to be built of brick arches similar to the main bridge.

DAVENPORT, IA.—The following bidds were received by City Council for construction of a two-span bridge across Rock River: Joliet Bridge & Iron Co., $15,600, $7 per yard for concrete; Belfontaine Bridge & Iron Co., $15,127, $9 per yard for concrete; Lafayette Engineering Co., $14,999, $9 per yard for concrete; Clinton Bridge & Iron Works, $14,765, $8.75 per yard for concrete; Massillon Bridge Co., $15,350; Continental Bridge Co., of Chicago, $16,900.

MARSHALL, MINN.—Bids are asked by John R. Gray, Cy. Recorder, until Aug. 16 for constructing concrete and stone abutments for a steel highway bridge over Redwood River on Main St.

WELLINGTON, KAN.—Bids are asked by County Commissioners until Aug. 22 for constructing a steel bridge with two 100-ft. spans over Arkansas River. L. M. Pfeifer, County Clk.

FORT SMITH, ARK.—Bids are asked by Board Public Affairs until Aug. 15 for building bridges on North O St. Plans and specifications on file in City Engineer's office.

TEXARKANA, ARK.—Two bridges will be built in this county. Each bridge will be 400 ft. long. A. S. Watlington is County Judge.

OKLAHOMA CITY OKLA.—We are informed that the City Council has authorized the City Clerk to advertise for bids on the construction of an approach to viaduct now built across tracks of Choctaw, Oklahoma & Gulf R. R. Bids will be asked on two plans, one for a pile and frame structure and the other for a steel structure. Chas. S. Wadsworth is Cy. Engr.

TALOGA, OKLA.—O. O. Alexander, of Kansas City, Mo., has the contract for erecting a steel bridge across the South Canadian River at Taloga, at $18,990. The river measures 1,282 ft. across at the point where the bridge will be located.

LA JUNTA, COLO.—Bids are asked until Aug. 22 for the construction of a bridge across the Arkansas River, consisting of a combination wood-steel bridge of one 150-ft. span, 16-ft. roadway with tubular piers 4 ft. in diameter, 480 ft. of pile bridging, consisting of 15 spans, 32 ft. in length. L. G. Carpenter, State Engr., Denver. (Advertised, Engineering News.)

WALLA WALLA, WASH.—Bids are asked by Walla Walla County Commissioners until Aug. 13 for construction of a county bridge across Dry Creek. Plans and specifications on file in office of County Auditor. W. J. Honeycutt, County Clk.

SPOKANE, WASH.—Bids are asked by Spokane County Commissioners until Aug. 23 for construction of a bridge on the Ingleford road. Z. Stewart, County Clk.

JAMESTOWN, N. DAK.—Bids are asked by County Auditor until Aug. 22 for constructing two iron bridges over Pipestem River.

STOCKTON, CAL.—The Supervisors of San Joaquin and Stanislaus Counties rejected all the bids on intercounty bridge over Stanislaus River as being too high. New bids will be invited later.

LOS ANGELES, CAL.—City Engineer Stafford has completed plans for bridge which is to cross Lakeshore Ave. along Sunset Boulevard. The bridge as planned will be 80 ft. long and cost $17,200. The city will contribute $9,350 and the railway companies $7,850.

HAILEY, IDAHO.—Bids are asked by Blaine County Commissioners until Aug. 17 for repairing Bullion St. bridge, according to specifications on file with Geo. A. McLeod, Clk. of Bd.

WINGHAM, ONT.—Bids are asked by John Ansley, Huron County Comr., until Aug. 16 for the erection of superstructure of three bridges.

WINDSOR, ONT.—The Sandwich County Council has authorized the raising of $30,000 for the purpose of building six iron bridges across Belle River in different sections of the county.

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WINNIPEG, ONT.—The Qu'Appelle, Long Lake & Saskatchewan Ry. Co., branch of the C. P. R., has decided to replace the Saskatoon bridge, swept away last winter, with a $250,000 steel structure.

BUILDINGS.

NEW BEDFORD, MASS.—Bids are asked by H[illegible] P. Jenney, Chm. Com. on Cy. Property, until Aug. [illegible] for erecting a public school building on Acushnet Ave. [illegible]uel C. Hunt, Arch.

NORTHAMPTON, MASS.—The School Committee [illegible]ed to recommend the following awards for construction of the Hawley grammar school building: General contract, J. L. Mather, of Northampton, $57,407; heating and ventilating, Huey Bros., 35 Hartford St., Boston, $[illegible]67; plumbing, Shumway & Riley, of Northampton, $[illegible]. The total cost, with furnishings, will be about $8[illegible].

BOSTON, MASS.—The following bids were received Aug. 6 by Bureau of Yards and Docks, U. S. N., for paint shop for building No. 125, Navy Yard; Item 1: [illegible] P. Cummings Co., 178 Devonshire St., $32,887; John B. Locatelli, 15 School St., $35,886; Smith & Robinson, 17 State St., New York, $33,900; Conners Bros. Const. Co., 16 Thorndike St., Lowell, $31,000; C. A. Dodge Const. Co., 8 Beacon St., $33,370; Clark Const. Co., 15 Beacon St., $33,595; Henry McGahey, 218 Main St., Cambridgeport, $32,700; Jones & Meehan, 1 Beacon St., $33,400.

PROVIDENCE, R. I.—Bids will probably be called Aug. 15 by Daniel F. Hayden, Council Clk., for construction of school house at Niagara and Ontario Sts. and Lexington Ave. Cost, $80,000. Martin & Hall, 49 Westminster St., are Archs.

MERIDEN, CONN.—Robertson & Potter, 160 Fifth Ave., New York, have been selected as architects for the new town hall for Meriden. It will be 2-story, of brick, with marble trim, and is estimated to cost $150,000.

BROOKLYN, N. Y.—Bids are asked by Department of Education until Aug. 15 for the erection of an addition to Erasmus Hall High School on Flatbush Ave., near Grant St. The amount of security required is $150,000.

CARTHAGE, N. Y.—Plans prepared by D. D. Kieff, Arch., of Watertown, for a high school have been approved by Commissioner of Education.

FORT TOTTEN, WILLETS POINT, N. Y.—Bids are asked until Aug. 27 for installing electric light fixtures and wattmeters in bachelor officers' quarters and in double officers' quarters. Capt. Geo. H. McManus, C. Q. M. (Advertised, Engineering News.)

NEW YORK, N. Y.—The Raymond Concrete Power Co. of Chicago has been awarded the contract for the concrete in the foundation for the new building to be erected for the U. S. Express Co., at 555-7 West 23d St., N. Y. Ernest Flagg, Arch., 35 Wall St., N. Y.

NEW YORK, N. Y.—Plans have been filed for a new two and three-story building to be erected at Lafayette Ave. and Barretto St., Bronx, as a girls' house for the Sevilla Home for Children, of which institution Samuel Sloan, Jr., is president. Its cost is estimated at $112,000.

M. Santangelo will build 6-story flats, with store, 30 × 125, at 30-32 Oak St., from plans filed by Bernstein & Bernsten, Archs., 72 Trinity Place. Cost, $40,000.

NEW YORK, N. Y.—H. Arnstein has filed plans for the six-story flats, 50 × 90 ft., to be built at Lenox Ave. and 115th St. G. F. Pelham, 503 Fifth Ave., is Arch. Cost, $105,000.

Robt. H. McCurdy, of the Mutual Life Insurance Co., has had plans filed at the Building Department for a four-story dwelling to be erected at 51st St., near Madison Ave. Clinton & Russell, 32 Nassau St., are Archs. Cost, $60,000.

Grossman Bros. & Rosenbaum will build two six-story flats, with stores, each 37 × 86 ft., on 135th St., near Lenox Ave. Plans filed by G. F. Pelham, Arch., place the cost at $76,000.

SOLVAY, N. Y.—The plans of the new High School building soon to be erected at Solvay, at Woods and Orchard Roads, have been approved by the Department Public Instruction. Contracts will soon be let.

BAYONNE, N. J.—Plans prepared by A. C. Longyear, Arch., 126 Liberty St., New York, for new police headquarters were adopted by City Council. Cost, $80,000. The City Clerk has been authorized to advertise for bids.

ALLEGHENY, PA.—City will probably issue $200,000 bonds for the construction of a jail.

HOLLIDAYSBURG, PA.—The Directors of the Poor of Blair County awarded the contract for the erection of the new building for the insane to Contractor P. W. Finn, of Altoona, for $129,026.

SHAMOKIN, PA.—The School Board, J. Harris, Secy., will soon have plans started for a school. Brick and stone, 2 stories. Cost, $40,000.

PHILADELPHIA, PA.—Bids are asked by Watson & Hazelton, Archs., Chicago, Ill., until Aug. 17 for erecting an office building at 12th and Spruce Sts. for the Odd Fellows. Brick, stone and steel, fireproof, 5 stories, 20x120 ft.

EASTON, PA.—Davis Bros., Archs., 907 Walnut St., Philadelphia, have about completed plans and will soon invite bids for a brick and office building for the Easton Trust Co. Brick and stone, 4 stories.

McKEESPORT, PA.—Harry S. Estep, Pittsburg, has been elected architect to design temple which will be erected by the Masons of McKeesport. Building will be 5 story fireproof structure, 60x100 ft. First story will be of stone, upper stories pressed brick and terra cotta. Cost, $80,000.

PITTSBURG, PA.—Bids are asked by Wm. L. Sibert, Maj. Engrs., U. S. Engineer's office, city, until Sept. 2 for building concrete foundations for two lockkeeper's houses at each of dams Nos. 2, 3 and 4, Ohio River.

Nirdlinger & Simpson, archs., have plans for 72x100 ft. 3-story apartment house on Townsend St., cost $35,000, to be erected by E. G. & M. B. Maloney.

Same architects also have plans for a 5-story hotel for J. S. Wilson of Jeremy Catering Co., city, cost $75,000.

PITTSBURGH, PA.—Chas. Rubens, Allegheny City, will erect a five story department store building on Fifth Ave., 40x90 ft., cost $50,000.

Grosvenor Atterbury, Arch., New York, has plans for a large hotel to be erected at Fifth Ave. and Grant St. by H. C. Frick, the steel magnate.

PHILADELPHIA, PA.—The contract to build the William L. Elkins Home for Orphan Girls, at Broad St. and Hunting Park Ave., was awarded to Doyle & Doak, 1500 Samson St. Cost, $250,000. As designed by Horace Trumbauer, Arch., 310 Chestnut St., the orphanage will be a 3-story brick building of Colonial architecture. There will be a central building, 68 × 125 ft., flanked on each side by a wing 36 × 107 ft.

Jacob Myers & Sons, Witherspoon Bldg., have been awarded the contract for a residence at 1723 Spruce St., after plans by John T. Windrim, Arch., 1107 Walnut St. Brick and stone, four stories; cost, $50,000.

PITTSBURG, PA.—A. & S. Wilson, 541 Third Ave., were awarded the contract for building new annex to jail and making other improvements for $568,050.

PITTSBURG, PA.—County Controller Cunningham and Commissioners Mercer and Clark awarded the contract for the extensions to county jail to A. & S. Wilson for $568,-050. The Commissioners have decided not to let the contract now for the new heating, ventilating and lighting system for county buildings. Work will be started immediately.

WAMPUM, PA.—The Catholic Congregation here will erect new church edifice to cost $82,000.

PITTSBURG, PA.—N. G. Scheibler, Jr., Arch., Wilkinsburg, Pa., has plans for two apartment houses to be erected by Robinson & Bruckman, on Braddock Ave., City. Cost, $50,000.

J. E. Obitz, Arch., has plans for six dwelling houses for W. A. Roberts, to be erected on Chislett St. Cost, $18,000.

SWISSVALE, PA.—Plans for two new schools for the borough have been presented to the School Board. Cost, $40,000 each.

BALTIMORE, MD.—Building Inspector Preston invites architects practicing in Baltimore to submit competitive drawings for the new Eastern High School on or before Aug. 31.

Edward Brady & Sons, 1109 Cathedral St., have been awarded the contract for an office building at Light and German Sts., for the Merchants & Miners' Transportation Co. Brick, stone and steel, fireproof, five stories, 75 × 75 ft.

Wm. Ferguson & Bro., 214 Clay St., have been awarded the contract for a warehouse at German and Howard Sts., for the Rieman estate. Brick and stone, six stories, 50 × 82 ft.

Hoyt & Mackintosh, Archs., 11 East Pleasant St., have started preliminary plans for a 14-story office building.

Wm. A. Gault & Son, 16 East Lexington St., have invited bids for a warehouse at 9 East Lexington St. Brick, stone and steel, fireproof, five stories.

The John Hopkins Hospital Trust Estate has invited bids for two 6-story warehouses at 116-118 South Calvert St.

Baldwin & Pennington, Archs., 311 North Charles St., are preparing final plans for a 10-story office building at Calvert and German Sts., for the Maryland Trust Co.

James Stewart & Co. have been awarded the contract for a 6-story office building at 105-09 North Charles St., for the Geo. R. Gaither estate. Cost, $65,000.

The Johns Hopkins Hospital Trust Estate has invited bids for a 5-story warehouse at Light, Lombard and Ellicott Sts.

A. S. Abell Co., Calvert and Saratoga Sts., will soon have plans started for an office building at Baltimore and Charles Sts. Brick, stone and steel, five stories, 60 × 114 ft.

WASHINGTON, D. C.—E. P. Casey, Arch., 1 Nassau St., New York, has invited bids on the superstructure of an office building on 17th St., between C and D Sts., N. W., for the Daughters of the Revolution. Cost, $250,000.

WASHINGTON, D. C.—The plans for new building for the Department of Agriculture have been submitted to Secretary Wilson by Rankin, Kellog & Crane, Archs., and within a few weeks the committee in charge will be ready to advertise for bids. An appropriation of $1,500,000 is available and the work will be begun as soon as possible.

MARTINSVILLE, VA.—Bids are asked by A. S. Gravely, Clk. of Council, until Aug. 20 for construction of a public school.

ROANOKE, VA.—The Norfolk & Western Ry. Co. will build a $100,000 depot. C. S. Churchill is Ch. Engr.

SUTTON, W. VA.—Bids are asked by E. W. Hefner, County Clk., until Aug. 22 for constructing a jail and sheriff's residence. Holmboe & Lafferty, of Clarksburg, are Archs.

CHARLOTTE, N. C.—Bids will be received until Aug. 15 by E. P. Milburn, Arch., for constructing a $75,000 passenger station for the Southern railroad.

ROME, GA.—The county contemplates remodeling jail at a cost of $25,000. Address the County Clk. for information.

NEW DECATUR, ALA.—Bids will soon be asked for construction of new city hall. Cowell & Love, of Huntsville, are Archs.

MINDEN, LA.—Bids are asked by W. G. Stewart, Pres. Bd. of Police, until Sept. 8 for the erection of a new court house. Andrew J. Bryan, 905 Hennen Bldg., New Orleans, is Arch.

MAYSVILLE, KY.—Bids have been opened in the Treasury Department for construction of the Maysville public building, for which $50,000 was appropriated by Congress. All the bids exceeded the available balance, hence the plans will either be modified or the bids rejected and Congress asked to appropriate an additional sum. The bidders were: Clark & Howard, of Lexington, Ky., $45,-837; Geo. Moore & Son, of Nashville, Tenn., $45,879; King Lumber Co., of Charlottesville, Va., $47,864; Geo. O. O'Toole, of Toledo, $46,500.

NASHVILLE, TENN.—The Corner Realty Co., incorporated by Paul Roberts, of Birmingham, Ala., and others contemplate the erection of a $300,000 office building of pressed brick and stone, with 220 rooms, to be erected at Church and Cherry Sts., in this city.

WINCHESTER, IND.—Bids are asked by F. M. Thornburg, Trustee, until Aug. 24 for construction of a school house in Nettle Creek Township.

BROWNSTOWN, IND.—The contract for remodeling the Jackson County jail at this place was awarded by the Commissioners to Anson Wilson, of Batavia, O., for $29,045.

GRAND RAPIDS, MICH.—L. C. Stanley, of Detroit, representing the Grand Trunk Railroad Company, is here closing contracts which will secure for this company the right of way into the center of the city, where he says a depot costing $50,000 will be erected. The site will be near the corner of Canal and Bridge Sts.

CHICAGO, ILL.—Henry L. Ottenheimer, 109 Randolph St., is planning to erect a building for W. Dempster at Ashland Ave. and 12th St. This building will have a frontage of 112 ft. on Ashland Ave and 76 ft. on the 12th St. side. The first story will be devoted to the use of stores, and the second and third stories will be divided into offices and apartments. Cost, $50,000.

CHICAGO, ILL.—The plans for the 14-story office building which Levy Mayer is to erect at 175-177 Jackson Boulevard are nearing completion, and work will commence within a few weeks. The building will be of fireproof construction, and the cost is estimated at $400,000. The first floor will be divided into stores, and the upper floors will be used for brokers' offices, etc.

D. H. Burnham & Co., Rookery Bldg., have completed plans for building to be built between 44th and 45th Sts., Marshfield and Hermitage Aves. The building will be two stories, 180 × 180 ft., and will be of concrete and brick on steel frame, the roof being of tile. The interior will be finished in hard wood and heated with steam. It will contain an assembly hall, library and gymnasium and a swimming tank. Cost, $60,000.

Henry L. Ottenheimer is preparing plans for an apartment building to contain 18 flats, to be erected at Wilton Ave. and Grace St. The building will be 100 × 175 ft., and cost $75,000.

MONEE, ILL.—A school house will be erected; $45,000 bonds will be issued for the purpose.

CHICAGO, ILL.—Plans for the new Michael Reese hospital to be built on the site of present building at Groveland Ave. and 29th St. are about completed. Cost, $50,000.

Bids are asked by South Park Commissioners until Aug. 17 for construction of two buildings. D. H. Burnham, Railway Exchange Bldg., is Arch. E. G. Shumway is Secy.

KANKAKEE, ILL.—Bids are asked by James Knox Taylor, Supv. Arch., Washington, D. C., until Sept. 12 for construction (except heating apparatus, electric wiring and conduits) of the U. S. post office here.

GALESBURG, ILL.—Davidson & Rundquist, City, were awarded the contract for construction of the new Galesburg High School at $97,634.

SULLIVAN, ILL.—Bids are asked by Louis K. Scott, County Clk., until Aug. 23 for the erection of a court house for Moultrie County.

MILWAUKEE, WIS.—Lindsay Bros., 78 to 94 Reed St., have awarded contracts for their new storage warehouses at Oregon and Clinton Sts., the plans of which were prepared by C. Crane, Arch. The building will be a 5-story brick and stone structure, resting on piles with concrete heads. It will be 242 ft. wide and 100 ft. deep. E. Winter was given the mason contract and M. Holberg the carpenter work. Cost, $100,000.

FERGUS FALLS, MINN.—A school bond issue of $45,-000 will be voted on here for the erection of new school buildings.

ST. LOUIS, MO.—An apartment building is to be erected this fall at Lindell and Boyle Aves. by the Fair Building Co. The plans are being drawn by Wm. Hambly. The building is to be three stories, 133 × 213 ft., and cost about $100,000. J. I. Epstein is financing the company.

PINE BLUFF, ARK.—The Iron Mountain R. R. will build a depot; cost, $65,000. L. T. Wright, of Keswick, Cal., is Gen. Mgr.

WALLA WALLA, WASH.—Plans have been drawn for a new $40,000 city hall here.

PORTLAND, ORE.—Chas. Sweeney, of Spokane, Wash., will erect a new 11-story hotel here.

SAN FRANCISCO, CAL.—Plans have been prepared for the erection of 24 3-room and bath apartment flats by the United Bank & Trust Co., at Buchanan St. and Lily Ave. Est. cost, $50,000.

SACRAMENTO, CAL.—Sacramento will issue $200,000 in bonds to provide for the construction of a new high school building.

UKIAH, CAL.—Bids are asked by W. W. Cunningham, Secy. Bd. of Mgrs. of Mendocino State Hospital, until Aug. 27 for the erection of an assembly hall between the Administration building and the ward buildings of Mendocino State Hospital, according to specifications on file at office of W. O. Banks, Copeland & Pierce, 126 Kearny St., San Francisco.

FORT DOUGLAS, UTAH.—Bids are asked until Sept. 7 for construction of one barrack building and one guard house, including plumbing, gas piping, heating and electric wiring. Capt. Saml V. Ham, Q. M., 512 Dooly Bldg., Salt Lake City. (Advertised, Engineering News.)

WATER SUPPLY AND IRRIGATION.

OLD TOWN, ME.—Water Works Committee is stated to be considering propositions of Wm. T. Haines, Waterville, Me., and Chas. S. Taylor, Wellsley, Mass., for introduction of water system here.

BRIGHTON, VT.—This town is stated to have voted $40,000 for water-works. (Post Office, Island Pond.)

BROCKTON, MASS.—Common Council has passed ordinance appropriating $25,000 for water main extensions.

PALMER, MASS.—Press reports state that considerable dissatisfaction is felt at service of local water company and that Municipal works are favored.

BUFFALO, N. Y.—The Dopp Water Purification & Softening Co. has been incorporated with $10,000 capital and will establish a water purifying plant in Buffalo. William H. Dopp, George H. Dunbar, Maurice B. Patch, all of Buffalo, are the directors.

GOSHEN, N. Y.—Bids are asked by the Water Commissioners until Sept. 1 for excavating a canal or trench in the upper portion of the reservoir, 2,800 ft. long, 30 to 200 ft. wide and 4 to 6 ft. deep. Amount of material is about 30,000 cu. yds. V. K. Mills, Engr.; H. J. Yerg, Clk. (Advertised, Engineering News.)

HORSEHEADS, N. Y.—Contracts for construction of local water works are stated to have been let July 27, as follows: laying the pipe, furnishing the pump, engines, building the reservoir and the pumping station complete, S. M. Neff, New York City, for $18,932.00; Charles Miller & Sons, Utica, N. Y., furnishing iron pipe and castings, $19,991; Rensselaer Manufacturing Co., Troy, N. Y., water gates and fire hydrants, $3,000.

LOCKPORT, N. Y.—We are informed that work of furnishing proposed new supply for municipal water system will require: pumping station building; two pumping engines 10,000,000 gallons each; 500 H. P. boilers; 12 miles of 33 in. steel main; stand pipe 25 ft. diameter 120 ft. high with tower: rim intake pipe 48 in. diameter 2,000 ft. long; the submerged crib in rim; source of new supply in Niagara River; estimated cost of work is $493,7000. Chas. A. Hague, 114 Liberty St., New York, is Consult. Engr.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

JAMAICA, N. Y.—Jamaica Water Supply Co. has filed mortgage for $1,000,000, $400,000 of which is to be used for increasing and extending companies plant, etc.

POLAND, N. Y.—Specifications are on file at office of Engineering News, 220 Broadway, New York, for constructing municipal water-works for this place. Bids are asked until Aug. 22, as stated in Engineering News of Aug. 4.

NEW YORK, N. Y.—Bids are asked by Commissioner Water Supply, Gas and Electricity until Aug. 17 for furnishing materials and making building improvements at Bayside pumping station; and also for furnishing, delivering and setting dock hydrants and appurtenances. John T. Oakley, Comr.

NEW YORK, N. Y.—Bids are asked by Commissioner Water Supply, Gas and Electricity until Aug. 24 for the following work: Furnishing and delivering corporation cocks for Borough of Brooklyn; hauling, setting and connecting two 36-in. gate valves in Fifth Ave., and making connection on 12-in. water main at 79th St. and East River; also for furnishing and delivering gate valves and hydrants. John T. Oakley, Comr.

SALAMANCA, N. Y.—East Salamanca Water Co. has been incorporated to supply water for Salamanca. The incorporators are Arthur G. Yates, George E. Merchant and John F. Dinkey, all of Rochester, N. Y.

WALLKILL, N. Y.—Bids are asked by the Board of Water Commissioners, Firemen's Hall, until Aug. 23 for furnishing material and labor for a gravity system of water-works, consisting approximately of 24,000 ft. of 4 to 8-in. pipe, 4 tons special castings, 30 double fire hydrants, 30 4 to 8-in. gate valves, 30 valve boxes, etc. E. W. Moxley, Engr.; E. B. Du Bois, C. J. Langer, John Wright, Comrs. (Advertised, Engineering News.)

ATLANTIC CITY, N. J.—Contract for sinking artesian well at Absecon Station is stated to have been let to Thomas B. Harper, Jenkinton, Pa.

CAMDEN, N. J.—U. S. Construction, Iron & Foundry Co., was low bidder July 29, for furnishing 20,236 ft., 30-in water main and for furnishing 60 tons castings, manholes, etc. Blowe & Mines, Camden, according to reports, were low bidders for laying the main.

HADDONFIELD, N. J.—Messrs. Tribus and Massa, Consult. Civil and Hydraulic Engineers, 84 Warren St., New York, and C. E. Hewitt & Co., Elec. Engrs., have respectively reported upon municipal water-works and electric lighting plants for this borough. The plants are to be under joint operation and are to be constructed at a total cost of about $125,000. The proposition has, as yet, only reached the stage of full discussion, and it may be some months before construction is authorized.

BELLEVUE, PA.—Ordinance has been before Council giving Ohio Valley Water Co. right to operate in this borough.

BLOOMSBURG, PA.—Bloomsburg Water Co. is stated to have let contract for excavation of 400,000 gallon reservoir to O. B. Mellick and G. H. Keiter, and contract for concrete work to M. J. Casey.

BOYERTON, PA.—Contract for reservoir for this town has been let to James N. Smith, Perkiomenville, Pa., for $3,392.

JAMESTOWN, PA.—We are informed that the authorities are considering a gravity water supply system for domestic use and fire protection. Water will be taken from springs to a tank and distributed through 6-in. and 4-in. cast iron mains. Available supply is 250,000 gallons per day and estimated cost is about $17,000. W. H. Waugh, Greenville, Pa., is Engr.

PHILADELPHIA, PA.—Following bids were received Aug. 2, by Peter E. Costello, Dir. Pub. Wks., for constructing intake tunnel for Torresdale filter plant, (1) being bid for open cut and (2) for tunnel form of construction: Daniel J. McNichol (1) Open cut, $159,000 (2) Tunnel, $204,000, 300 days; J. H. Louchheim (1) Open cut, $238,740 (2) Tunnel, $252,000, 150 days; Riter, Curtis & Hill (1) Open cut, $295,000 (2) Tunnel, $228,000, 300 days. Contract reported let to D. J. McNichol at $159,000.

OAKLAND, MD.—L. T. Yoder, Pittsburg, Pa., has submitted proposition to Councils for installation of waterworks system, with sewerage for the entire city.

WILLIAMSPORT, MD.—Town Council has been asked for franchise for water works. Estimated that system can be put in for about $15,000.

RICHMOND, VA.—We are informed that the bids received July 28 for construction of a 5-ft. conduit were not in accordance with specifications or form for bid and were rejected. It is possible that new bids may be taken or that the city will itself undertake the work. Chas. E. Bolling, Supt. W.-W.

ASHVILLE, N. C.—We are informed that city is not prepared at this time to build a reservoir. Information will be given when matter is definitely decided. B. M. Lee, Cy. Engr.

CHARLESTON, S. C.—Special committee was to report to Council Aug. 9, on the substitution by the Charleston Light & Water Co. of new water pipes to replace old deteriorated pipes now in use.

CAMILLA, GA.—Election may be held soon to vote on $20,000 bond issue for putting in water works and acquiring ownership of electric light plant.

COLUMBUS, GA.—Golden Foundry Co., has offered to pay one half expense, ($1,250) toward having an artesian well, if city will pay remainder of cost.

COLUMBUS, GA.—We are informed that plans are now in course of preparation for a storage reservoir for the city. It will be some time, however, before bids for construction are asked. J. L. Ludlow, Winston-Salem, N. C., is Engr.

TIFTON, GA.—City may issue bonds for laying water mains, and is said to be considering entering into contract with Capt. H. H. Tift for supply from his well. W. W. Timmons is Mayor.

BESSEMER, ALA.—Council has ratified contract with Bessemer Water Works Co., and it is stated that supply from Hawkins Springs will be pumped to city within six months.

MONTGOMERY, ALA.—B. B. Smith, Montgomery, is to prepare plans and specifications for extension of city water system. One or more standpipes, one or more reservoirs and water mains are to be constructed and the work will cost considerably over $100,000. Thomas H. Carr is Mayor.

WYLAN, ALA.—Water-works and light plant discussed.

ABERDEEN, MASS.—We are informed that surveys are nearly completed for water works and sewers to cost $700,000 and work is to be advertised in 45 or 60 days. A. L. Dabney 13½ Madison St., Memphis, Tenn., is Engr.

MAGNOLIA, MISS.—City has reached an agreement with the Magnolia Cotton Mill for a location, and power for the operation of its new water-works system, this being found much cheaper and more serviceable than the erection of a separate pumping station.

CARROLLTON, MISS.—W. D. Kimbogh, Cy. Clk., writes us that they will sell $10,000 of bonds Sept. 1, for building water-works system.

NEW ALBANY, MISS.—City votes to issue bonds for erection of water works and electric light plant.

SEMINARY, MISS.—$10,000 bond issue may be voted for installing water works.

UTICA, MISS.—An election is to be held soon to vote on $20,000 bond issue for constructing water-works.

CHATTANOOGA, TENN.—We are informed that plans and specifications are being prepared for a complete water-works system for this city, to include a filtering system of 6,000,000 gallons daily capacity. The cost is $656,000. The work is in the hands of the Knoxville Water-Works Commission, Norman B. Morrell, Secy., Knoxville, Tenn., and Owen Ford, 710 Security Building, St. Louis, Mo., is Consult. and Supervising Engineer.

CARLISLE, KY.—Water-works likely. W. J. Kennedy is Mayor.

DANVILLE, KY.—The Water Commissioners of the Board of Aldermen have awarded the contract for a concrete-steel dam to the Ambursen Hydraulic Construction Co., 176 Federal St., Boston, Mass. W. B. Fuller, 170 Broadway, New York, is Consult. Engr.

CINCINNATI, O.—Board Commissioners of Water-works are stated to be calling for bids until Aug. 30, for completing the construction of settling reservoirs at the eastern pumping station.

CLEVELAND, O.—Bids are asked by Secretary of the Board of Public Service until Aug. 19 for furnishing and delivering all meter manhole rings and covers required by the water-works division during 1904. The estimated quantity is about 100 tons. A. R. Callow, Secy.

COLUMBUS, O.—Bids are asked by Board Trustees, Columbus State Hospital until Aug. 25, for labor and material for erecting water tank and substructure at State Hospital. Frank L. Packard, Arch., Columbus, O.; George Stockton, M. D., Secy.

COLUMBUS, O.—Council Water Committee has approved proposition to submit to popular vote matter of $1,200,000 bond issue for a filtration plant. Julian Griggs is Cy. Engr.

LISBON, O.—Council has voted to place $4,000 in the hands of E. M. Crosser, Supt. W.-W., for improving the city's water supply.

MARIETTA, O.—The contract for constructing a mechanical filter plant for this place, which was awarded to the Norwood Engineering Co., Florence, Mass., as was stated in our last week's issue, was given to that concern, with the understanding that there would be included a 4,000,000-gallon d'Auria high-duty tandem compound duplex condensing pumping engine, to be built by the Builders' Iron Foundry, of Providence, R. I.

NEWARK, O.—Mayor Crilly is stated to have advised the City Council to go ahead with plans for entire new water-works system.

WELLSVILLE, O.—Bids are asked by the Board of Water-Works Trustees until Aug. 19 for furnishing cast-iron pipe and fittings for the new water-works. Robt. W. Hunt & Co., Engrs., Monongahela Bank Bldg., Pittsburg, Pa. C. C. Ewing, Supt. Water-Works. (Advertised, Engineering News.)

YOUNGSTOWN, O.—Bids are asked by the Board of Public Service until Aug. 18 for furnishing 400 ft. of 36-in. iron pipe, 10 tons of 24-in. flange pipe, six 24 to 30-in. iron body gate valves, flanged and hub end, f. o. b. Youngstown, for connecting the pumping stations to the filter plant. G. T. Prosser, Clk. (Advertised, Engineering News.)

INDIANAPOLIS, IND.—Sinking of new well and other improvements totaling $3,000 are required at Brightwood water plant. Council finance committee, however, favors selling the plant.

ARTHUR, ILL.—Reported that water and light plant is under consideration.

SPRINGFIELD, ILL.—Installation of meters at a cost of $84,000 discussed by City Council.

SPRINGFIELD, ILL.—Council water-works committee is stated to have recommended sinking of 15 driven wells at an est. cost of $35,000.

GREENWOOD, WIS.—Question of municipal ownership of the water-works plant now the property of R. F. Kountz of Neillsville, is agitated.

MILWAUKEE, WIS.—Joint Committee on Almshouse and Public Buildings of County Board are to take up matter of spending $40,000 for extension of water mains of city to county hospital.

Contract for new 20,000,000 gallon pumping engine for North Point Station is stated to have been let to William Tod Co., Youngstown, O., for $74,000.

ARION, IA.—M. B. Nelson, Chm. Com. writes us that new city water-works are to consist of 6,000 gallon per hour pump, 10 H. P. gasoline engine, six 4-in. hydrants, 1,580 ft. 6-in. and 2,010 ft. 4-in. cast iron pipe. Morris McHenry, Denison, Ia., is Des. Engr.

CHARITON, IA.—It is stated that city may issue $40,000 of bonds, with which to install water-works in connection with the municipal electric light plant.

REDFIELD, IA.—Water-works reported projected. Robert Goodwin is Mayor.

WATERLOO, IA.—We are informed that local water company will sink ten artesian wells at cost of $75,000 as soon as possible. City it is stated will try to buy plant soon. J. E. Sedgwick is Secy. Water Co.; and D. W. Mead, Chicago, Ill., is Des. Engr.

WOODWARD, IA.—Town votes soon on water-works proposition.

HARVEY, MINN.—Town votes to install water-works and sewerages. (Post Office, St. Paul.)

ABILENE, KAN.—This city is investigating the question of municipal ownership of water-works and has employed Burns & McDonnell, Kansas City, Mo., to make a valuation of the water-works plant and prepare plans and specifications for improvements or new works.

OSCEOLA, NEB.—W. D. Crum, Trustee, writes us that ordinance has just passed Council submitting proposition to citizens for $25,000 bond issue for installing municipal water-works. Supply will be from deep well.

FORT MEADE, S. DAK.—Plans are on file at office of Engineering News, 220 Broadway, New York, for construction of reservoir, pipe line, etc., at Fort Meade. Bids are asked until Aug. 18, as advertised in Engineering News.

BOSEMONT, MONT.—Ordinance has been passed to create a water improvement fund.

GLASGOW, MONT.—City will vote on $20,000 bond issue for installing water-works.

SEDALIA, MO.—United Water, Gas & Electric Co. held meeting Aug. 1 to consider issue of $1,000,000 of bonds, and the Sedalia Water & Light Co., Chas. C. Evans, Secy., held meeting Aug. 2 to consider sale of its plant, franchise, etc., to first named company.

CAMERON, MO.—This city has awarded a joint contract for a $59,000 water-works system to the following concerns: J. P. Atkisson & Son, Kansas City; W. M. Cook & Son, Junction City, Kan.; W. W. Corey, St. Louis, and the General Electric Co., of Chicago.

CLYDE, TEX.—Water-works to be constructed here, according to reports. Clyde Progressive Club can inform.

ORANGE, TEX.—It is reported that Theoran Strong Land & Irrigation Co. will build irrigating canal and establish irrigation plant near here. Geo. F. Poole reported interested.

EL PASO, TEX.—Mimbres Water Co. has applied for franchise from city to furnish water from Mimbres River.

WHARTON, TEX.—Bids are asked by Town Council until Aug. 22 for furnishing and erecting 50,000-gallon steel tank, 18 ft. in diameter, with hemispherical bottom, and a four-post steel tower 100 ft. high. T. L. Smith, Jr., Eagle Lake, Tex., Cy. Engr.; John Blair, Town Clk.

PUEBLO, COLO.—Colorado Fuel & Iron Co. is stated to be considering building fourth reservoir to be connected with present reservoirs. It is also stated that arrangements will be made for beginning work on the 6-ft. pipe line connecting these reservoirs with the Arkansas River at the foot of the Royal Gorge, near Canon City.

SEATTLE, WASH.—(See under Streets and Roads.)

SPOKANE, WASH.—Action favoring construction of a 15,000,000-gallon reservoir near Ninth Ave. and Division St. and construction of a 1,000,000-gallon reservoir or storage tank in Lidgerwood Park has been taken by Trustees of the Chamber of Commerce and Executive Committee of the Taxpayers' League. Committees were appointed to urge the plan upon the Council. A 24-in. pipe will probably connect the reservoirs. A. F. Gill is Cy. Engr.

TACOMA, WASH.—Two general plans for new water system for this city are being discussed. One provides for a gravity system from the mountains, the other for supply from the wells at South Tacoma. The estimated cost of a new system is from $250,000 to $300,000.

COTTAGE GROVE, ORE.—Local reports state that George Lea has contract for putting in the water-works at Sheridan, Ore. About $10,000 will be expended.

ANTIOCH, CAL.—Trustees are stated to have awarded a contract to the Stanley Contracting Co. for pumping machinery and pump house to cost $5,749; and contract to Clark & Henery for erecting steel tower and tank for $6,290.

MOUNTAIN VIEW, CAL.—Town votes to issue $28,000 for installing municipal water plant.

SAN DIEGO, CAL.—Reported that parties represented by Judge Puterbaugh have made proposition to city to furnish it with 4,000,000 gallons of water daily.

REDWOOD CITY, CAL.—$100,000 bond issue is favored, proceeds to be used for putting in new water mains, regrading streets and sewerage.

OAK PARK, CAL.—Oak Park Water Co., according to reports, will let contracts for two tanks of 60,000 gallons capacity each, and will lay 6, 8 and 10-in. pipes through the town of Oak Park. They will sink two large wells on their property and will establish two pumping plants, one of which will be run by an electric motor and the other by a gasoline engine.

SANTA ANA, CAL.—Estimates for a considerable extension of the water system in northwestern part of city are stated to be in hands of City Water Department.

VALLEJO, CAL.—John Spelman has applied for franchise for laying pipes and conduits in this city.

HEBER, UTAH.—City votes to issue $12,000 bonds for installing water-works. Jos. R. Murdock is Chn. Com.

CULDESAC, IDAHO.—M. F. Mendenhall, Spokane, Wash., who has franchise for gravity water-works here, has let contract for pipe to Washington Pipe & Foundry Co., Tacoma, Wash. It is proposed to construct 150,000-gallon reservoir and to install seven fire hydrants. Mr. Mendenhall, who also holds franchise at Stites, Idaho, has let contract for pipe and necessary equipment to Shultz & Livis, Stites.

RENO, NEV.—Reno "Gazette" quotes President Flanigan of the water company as stating that the company has purchased the Pat Henry ranch. A tunnel will be excavated and the water piped in two 40-in. mains to a ditch which is about 2,000 ft. from the springs. The water will be conveyed from the ditch to reservoirs until such time as the company will be able to lay a pipe line to Reno. Work will be started immediately.

MOOSE JAW, ASSA.—In addition to contract placed with Robb Engine Co., Amherst, N. S., for machinery for water-works and electric light plant, this city has placed an order with the Builders' Iron Foundry, Providence, R. I., for a d'Auria high-duty condensing pumping engine of 1,000,000 imperial gallons capacity per day.

EAST TORONTO, ONT.—Town Clerk writes us that John Galt, 20 King St., East, Toronto, is preparing plans and specifications for proposed new municipal water-works to cost $55,000, and it is expected shortly to secure tenders.

KINCARDINE, ONT.—Town votes to expend $4,500 for extending water-works and electric light plant.

BORDEAUX, QUE.—City will borrow $25,000 for installing water-works and sewers.

VICTORIA, B. C.—This city has advertised for bids for 12,000 ft. of cast-iron pipe to be delivered in Victoria on or before May 1, 1905. Bids should be addressed to W. W. Northcott, Purchasing Agent, City Hall, Victoria, B. C., and must be received before 3 p. m., Sept. 12.

SEWERAGE.

SQUIRREL ISLAND, ME.—Village corporation is considering installation of sewerage. Est. cost is set at $14,250. Edward W. Hall, Waterville, Me., may be interested.

HAVERHILL, MASS.—Council has been petitioned to provide sewerage facilities to abolish Little River nuisance.

MALDEN, MASS.—Council has adopted ordinance appropriating $20,000 for surface drainage.

OXFORD, MASS.—Town has voted to build [illegible] sewer in Cherry St., and Cooke and Main Sts., [illegible] cost of $5,000.

SALEM, MASS.—Council is to take action [illegible] on $200,000 appropriation for sewerage. Joseph [illegible] is Mayor.

WESTFIELD, MASS.—Work will probably be begun at once for constructing surface sewer from [illegible] St. to Elm St., at est. cost of $3,000.

CUBA, N. Y.—Village voted Aug. 2 against [illegible] of sewers.

BINGHAMTON, N. Y.—S. M. Baird, Cy. [illegible] will recommend the replacing of the 8-in. sewer [illegible] Exchange St., between Susquehanna and Hawley [illegible] with a 12-in. main.

DANSVILLE, N. Y.—Bids are asked by the Board of Trustees until Aug. 31 for the construction of sewage disposal works, and portions of the sewerage system. Knight & Hopkins, Engrs., Rome; Oscar Wood[illegible] Pres.; Jas. A. Young, Clk. (Advertised, Engineering News.)

IRVINGTON, N. J.—Various extensions to lateral sewer system of this place are to be made, according to recent decision of Town Council. Frank R. Sharp is Chm. Sewer Com.

HARRISBURG, PA.—Bids are asked by Highway Department, Chas. B. McConkey, Comr., until Aug. 13 for constructing 12-in. sewers in Seneca St. and Thompson Ave.

DRAVOSBURG, PA.—Town voted Aug. 6 on constructing sewer system, est. cost of which is set at $28,[illegible].

INGRAM, PA.—John McBride, Boro. Engr., 46 Fidelity Bldg., Pittsburg, Pa., will receive bids until Aug. 16 for construction of number of new sewers for this borough.

SALISBURY, N. C.—(See Streets and Roads.)

LAUREL, MISS.—Bids are asked until Aug. 27 for furnishing all material and labor and constructing a sanitary sewer system, consisting of salt-glazed sewer pipe, laid with cement joints, and all proper manholes and flush-tanks. Iowa Engineering Co., Consult. Engrs. (Advertised, Engineering News.)

MAYSVILLE, KY.—Council is stated to have rejected all bids for constructing sewer in 5th and 6th wards and will do the work itself. Est. cost is about $13,000, and Committee, Oliver Hord, Cy Engr., member, was authorized to purchase the necessary material and proceed with the work of building the sewer.

HENDERSON, KY.—Bids are asked by City Clerk until Aug. 16 for the construction of 20-in. pipe sewer on Fifth St., and for a 15-in. pipe sewer on Green St. J. H. Powell, Mayor.

LAKEWOOD, O.—Bids are asked by the Village Clerk until Aug. 15 for the laying of sewer mains, water main, and water pipe in Marlowe St. Blank proposals and contracts and specifications can be seen at the office of the Wm. H. Evers Engineering Co., 237 Arcade bldg., Cleveland, O. Henry J. Sansel, Village Clk.

DELPHOS, O.—Council has passed ordinances to proceed with the construction of a disposal plant and a system of trunk or main sewers.

MANSFIELD, O.—Ordinance has been approved for the improvement of Park Ave. by sewering.

NOWALK, O.—Council has been petitioned to form a sewer district and to install a sewerage system.

URBANA, O.—Board of Health is asking for the construction of a 24-in. sewer in what is known as the "Town Branch." It is probable that the council will take action.

CLEVELAND, O.—Bids will be received by Secretary Board Public Service until Aug. 16 for furnishing and laying cast iron water pipe and special castings for the Dean Valley intercepting sewer pumping plant, between the intersection of St. Clair St. and the Boulevard and Ansel Ave. Plans and specifications can be obtained at the office of the Chief Engineer. A. R. Callow, Secy.

CANTON, O.—Bids are asked by the Board of Public Service until Aug. 29 for the construction of a main sewer and laterals in District No. 2, consisting of about 87,583 ft. of 8 to 18-in. pipe, 246 manholes, 43 flush-tanks, and 1 inverted siphon. Specifications may be seen at the office of Engineering News, 220 Broadway, New York. F. E. Myers, C. C. E. (Advertised, Engineering News.)

CLEVELAND, O.—Bids are asked by Secretary Board Public Service until Aug. 19, for furnishing and delivering all 15-in. sewer pipe that may be required by the Water-works division of the Board of Public Service, during the year 1904. Estimated quantity is about 13,000 lin. feet. Specifications and blank proposals can be obtained at the office of the Superintendent of Water-works. A. R. Callow, Sec'y.

CUYAHOGA FALLS, O.—Special election is to be held Aug. 30 to vote on constructing sewer system to cost not more than $80,000.

GREENVILLE, O.—Bids are asked by Board of Public Service until Aug. 22, for construction of sewers in Brighton Road, between Dean St. and Lake Shore Boulevard. C. C. Collacot, Pres.

SANDUSKY, O.—Bids are asked by Board Public Service until Aug. 16 for constructing sewer in First St.

STEUBENVILLE, O.—City Council has decided to build a 36-in. sewer and have decided to ask for bids for either pipe or brick construction.

YOUNGSTOWN, O.—Bids are asked by Board Public Service until Aug. 15 for constructing sewers in Mt. Pleasant St., and Parmalee Ave. G. T. Prosser, Clk.

Construction of large conduit paralleling B. & O. R. R., and crossing the Mahoning River is reported under consideration for drainage of west end of city. F. M. Lillie is Cy. Engr.

HAMMOND, IND.—Bids are asked by the common council at office of city clerk, until Aug. 23, for constructing sewers, with the necessary manholes, catch basins, house drains, etc. W. F. Bridge, Cy. Engr.

INDIANAPOLIS, IND.—Board Public Works is to consult with engineering experts regarding construction of West Indianapolis main sewer, which is projected at an est. cost of $197,000.

MONTICELLO, IND.—Bids are asked by Town Clerk until Aug. 23 for construction of sewer No. 18 and laterals Nos. 19 and 20. W. J. Gridley, Clk.

RICHMOND, IND.—Bids are asked by John F. Taggart, Cy. Clk., until Aug. 15 for construction of lateral sewer between South 21st and 22d Sts.

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BAY CITY, MICH.—We are informed that bids will be received about Aug. 23 for construction of 7,400 ft. 26-in. x 39-in. brick sewers; average cut, 15 ft. Est. cost $12,000.

MUSKEGON, MICH.—The Council has ordered construction of a lateral sewer on Pine St. at a cost of $5,300, and a lateral sewer on Spring St. and Western Ave. at a cost of $1,154.

URBANA, ILL.—Contract for sewer system at this place has been let to J. H. Palmer, Danville, Ill., for $42,716.

CHICAGO, ILL.—A petition has been filed in the County Court, asking that a special assessment be made for the construction of a sewerage pumping station at 95th St. and Erie Ave., and the construction of a concrete sewer system for South Chicago and the Calumet region. The proposed system will cost $745,000, and will drain the low lying regions of Calumet.

SPRINGFIELD, ILL.—Plans, specifications and bidding sheet for building an extension of the Williams Branch sewer are on file at office of Engineering News, 220 Broadway, New York. Bids are asked until Aug. 17, as advertised in Engineering News July 28.

MOLINE, ILL.—H. Paddock, Cy. Engr., is stated to be making estimates for construction of about 32,000 ft. of sewer mains to cost about $45,000.

JANESVILLE, WIS.—Hayes Bros., Janesville, were reported to be low bidders for building main sewer at Edgerton, est. cost of which is about $9,000.

AMES, IA.—Shepard & Harrahan, Des Moines, Ia., at $24,862 and J. W. Turner, Des Moines, Ia., at $24,986 were low bidders July 21 for constructing pipe sewers for this place. All bids are stated to have been rejected.

KNOXVILLE, IA.—Sanitary sewer system may be installed here.

NEWTON, IA.—Bids are asked until Aug. 22 for constructing about four miles of 8 to 12-in. pipe sewers, with the necessary manholes, flush-tanks and lampholes. Chas. F. Sturtevant, Engr., 1208 Fisher Bldg., Chicago, Ill.; A. C. Gates, Cy. Clk. (Advertised, Engineering News.)

DES MOINES, IA.—Bids are asked by Board Public Works until Aug. 29 for laying about 522 ft. 12-in. vitrified clay pipe sewer in West 17th St.

DYERSVILLE, IA.—G. H. Merriditb, Cons. Engr., Kimball Building, Cedar Rapids, Ia., has been engaged to prepare plans and specifications for a complete system of sewers.

VIRGINIA, MINN.—James Dowling, Chisholm, Minn., was awarded contract at $2,503 for sewering Districts 3a and 2b.

MADISON, MINN.—Town is stated to be planning a sewer system.

ST. PAUL, MINN.—City Engineer Rundlett has prepared plans and specifications for the 14th St. sewer from Jackson to Canada. Est. cost is $4,000.

FALLS CITY, NEB.—Hiram Phillips, Pres. Bd. Pub. Wks., St. Louis, Mo., is stated to have made favorable report looking to construction of sewers for this place.

BERESFORD, S. DAK.—Bids are asked until Aug. 15 for constructing about 2,800 ft. of sewer. H. A. Sturges, Cy. Audr.

DENVER, COLO.—Board Public Works proposes to create two storm sewer districts. One of these will run from Washington to Downing and from Twelfth to Twenty-third St. The other district will be bounded by Twenty-Fourth Ave., Downing Ave., 31st St., Champa and 26th Sts.

SEATTLE WASH.—Ordinance has been before Council calling for construction of proposed Rainier Valley sewer, est. cost of which is about $72,000. R. H. Thomson is Cy. Engr.

SEATTLE, WASH.—See under Streets and Roads.

PORTLAND, ORE.—According to plans filed in the city engineer's office the Irvington sewer will cost $125,000. One tunnel 1,000 ft. long must be cut through what is believed to be gravelly soil. Construction is delayed until right of way through the Shaver tract can be obtained.

OAKLAND, CAL.—Hutchinson Co., at $33,523 was only bidder for sewering Broadway from 12th St. south. Engineer's estimate was $18,000.

SAN PEDRO, CAL.—City Engineer Whitman is stated to have been preparing plans and specifications for a complete sewer system for this city.

LOS GATOS, CAL.—City Trustees are considering construction of septic tank sewerage system.

BERKELEY, CAL.—City Trustees have passed resolution ordering the sewering of Shattuck Ave. between Center and Addison Sts. The recommendation of the street committee was adopted that the protest against the construction of sewer in Shattuck Ave. between Center and Addison Sts. be overruled, and the work proceeded with in regular course; also that Forrest Ave. be sewered.

LEWISTON, IDAHO.—Engineer Miller has submitted plans and reports on the proposed East Main St. sewer system showing the estimated cost to be $89,000. This includes the installation of a pumping plant costing $3,500.

BISBEE, ARIZ.—City Council has adopted ordinance granting a franchise to Ray Ellege to lay a system of sewerage. Work must begin in six months and be finished in two years.

NIAGARA FALLS, CAN.—Bids are asked by John Robinson, Cy. Clk., until Aug. 15 for the construction of Sections Nos. 11, 12, 13 and 14 of the Niagara Falls Sewerage System to consist of about 3,900 ft. of 24 and 30-in. sewers, about 17,000 ft. of 12, 15 and 18-in. sewers, and about 8,000 ft. of 9 and 10-in. sewers, including all rock excavations and appurtenances. John H. Jackson, Engr.; George Hanan, Mayor.

GARBAGE DISPOSAL—STREET CLEANING

NEW BEDFORD, MASS.—Board of Health has let contract to New Bedford Extractor Co., Andrew G. Pierce, Jr., Pres., for the collection and destruction of garbage, dead animals, etc., for a period of ten years, beginning Sept. 1, for the sum of $25,500 per year.

ELMIRA, N. Y.—Frederick Leach, Cy. Engr., is stated to be preparing specifications to call for bids for erection of garbage crematory, to cost from $9,000 to $18,000.

ORANGE, N. J.—Council Committee on Public Health is stated to have recommended to Council the building of garbage crematory. Est. cost is set at about $16,000. William Schluer is Health Officer.

PHILADELPHIA, PA.—Bids are asked by Peter E. Costello, Dir. Pub. Wks., until Sept. 1 for cleaning streets, private alleys, inlets and public market houses, removing ashes, sweepings, cut grass and other waste; also for removal and disposal of kitchen garbage, dead animals, etc., during 1905.

EVANSVILLE, IND.—Bids are asked by Street Commissioners until Aug. 20 for sweeping about 4,867,984 sq. ft. of streets of this city.

DULUTH, MINN.—Special commission has been considering establishment of municipal garbage plant.

STREETS AND ROADS.

MELROSE, MASS.—W. Dabney-Hunter, Supt. Pub. Wks., has awarded the contract for widening Main St. to James L. Bryne, of Dorchester, whose bid of $25,805.25 was the lowest.

WILBRAHAM, MASS.—R. F. Hudson of Melrose, was awarded the contract for building a section of State road here, by State Highway Commissioners at $8,005.

LENOX, MASS.—The contract for building 2½ miles of highway here was awarded to Wm. H. Mague of West Newton for $18,748, lowest bidder.

HARTFORD. CONN.—James H. Macdonald, Highway Comr., awarded to Thomas Kearney the contract for 2,600 ft. telford road, to cost about $5,000; also to A. C. Sternberg, of West Hartford, four sections of road, telford and macadam, in Bloomfield, at $5,670.

NEW BRIGHTON (S. I.) N. Y.—Bids are asked until Aug. 16 by Geo. Cromwell, Pres. Boro. Richmond, for regulating, grading and paving with asphalt on present macadam foundation a portion of St. Mary's Ave. Engineer's estimate, 3,850 sq. yds. sheet asphalt, 300 lin. ft. new curb and 2,900 lin. ft. old curb.

NEW YORK, N. Y.—Bids are asked until Aug. 17 by John F. Ahearn, Pres. Boro. Manhattan, for regulating, grading, paving with telford macadam and wood block, curbing, flagging, reflagging, etc., portions of several streets; engineer's estimate, 33,000 sq. yds. telford macadam, 9,840 sq. yds. block, 72,000 sq. ft. new flagstone.

NEW ROCHELLE, N. Y.—Bids are asked until Aug. 16 for regulating, grading, curbing and paving Main and East Main St. Chas. Kammermyer, Cy. Clk. Specifications may be seen at the office of Engineering News, 220 Broadway, New York. (Advertised, Engineering News.)

WELLSVILLE, N. Y.—Bids are asked until Aug. 25 for furnishing and constructing about 6,250 sq. yds. of brick pavement on a 6-in. concrete foundation and 3,400 ft. of curbing. F. M. Leonard, Cy. Clk. (Advertised, Engineering News.)

JERSEY CITY, N. J.—Bids are asked by Board of Street and Water Comissioners until Aug. 15 for the improvement of Smith St. Geo. T. Bouton, Clk.

MAYWOOD, N. J.—Bids are asked until Aug. 15 for about 10,840 yds. macadam, 5,100 lin. ft. curb and 1,770 sq. yds., cobble gutters.

ATLANTIC CITY, N. J.—A new boulevard to run along the shore of the mainland, parallel with the road, now occupied by a trolley line, is projected, the County Board of Freeholders have authorized a survey for the new highway. The road will be run nine miles from Absecon to Somers Point and will be 100 ft. wide.

GLASSPORT, PA.—Bids are asked by Street Committee of Councils until Aug. 15 for the grading, paving and curbing of Sixth St. 1,450 ft. Geo. W. Hartman, Chm. St. Com. Bids also received on grading, paving and curbing of Ohio Ave., 2,320 ft.

HARRISBURG, PA.—Bids are asked by State Highway Department until Aug. 22 for constructing about 2,800 lin. ft. of road, 14 ft. wide, in Upper Allen Township, Cumberland County; also for about 2,987 lin. ft. road, 16 ft. wide, in East Pennsboro Township.

Bids are asked until Sept. 2 for about 1,358 lin. ft. road, 15 ft. wide, in Smithfield Township, Huntingdon County. Jos. W. Hunter, State Highway Comr. Specifications on file at office of Engineering News, 220 Broadway.

PITCAIRN, PA.—We are informed through the Pittsburg office of the Reese-Hammond Fire Brick Co. that the contract for paving seven streets here, 27,000 yds., with the Reese-Hammond block, was awarded to the Buster Contracting Co., of Tarentum.

PITTSBURG, PA.—The Reese-Hammond Co. closed a contract with Keeling & Ridge, of Pittsburg, for 1,000,000 of their make of paving block, to be used at Derry and Latrobe, Pa. Work to be done immediately.

We are informed that the Commissioners of Allegheny County have awarded to W. W. Kelly, of McKeesport, the contract for constructing the Foster road for $34,169, and the Coulterville road for $15,385. Mr. Kelly has purchased a Climax crushing plant through their Pittsburg office, and will begin work at once.

WAYNESBURG, PA.—Bids are asked until Aug. 16 by the State Highway Department at Harrisburg for constructing 15,840 ft. of road in Franklin Township.

FORT DU PONT, DEL.—Bids are asked until Aug. 20 for constructing walks, and until Sept. 1 for roads. Capt. Louis F. Garrard, Jr., Q. M. (Advertised, Engineering News.)

BALTIMORE, MD.—The Highways Commission awarded the contract for grading and paving First St., Highlandtown, to the Baltimore Construction & Erection Co. for $26,060.

City Solicitor Bruce has drafted an ordinance appropriating $600,000 for the widening of Charles and other streets.

NORFOLK, VA.—Bids are asked by the Board of Street, Sewer and Drain Commissioners until Aug. 29 for curbing about 3,300 ft. with granite and paving about 7,000 sq. yds. with asphalt on a portion of Granby St. B. Gray Tunstall, Chn. (Advertised, Engineering News.)

SALISBURY, N. C.—Bids are asked until Aug. 25 for grading, draining, paving and curbing certain streets, consisting of about 7,000 sq. yds. of either brick, asphalt or bitulithic pavement, laying 50,000 sq. yds. macadam pavement with gutters paved with granite blocks, setting 31,000 ft. of curb and laying about 4,050 ft. of storm water sewers, with necessary manholes and catchbasins. A. H. Boyden, Mayor. (Advertised, Engineering News.)

WASHINGTON, N. C.—Bids are asked until Aug. 15 for 10,000 sq. yds. brick, stone or bitulithic pavement.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

KNOXVILLE, TENN.—The Knox County Road and Workhouse Commission awarded to Mann & Co. a contract to build four miles of pike. The road will run from Beaver Ridge to Chennoweth Gap.

LOUISVILLE, KY.—It is reported that bids are asked by Board Public Works until Aug. 15 for constructing brick sidewalks on several streets. Est. cost, $10,000.

HODGENVILLE, KY.—Bids are asked by Williams & Handly until Aug. 15 for construction of about 5,000 sq. ft. of granitoid sidewalk on Main St. Wm. Lening, Chn. Brd. of Trustees.

HENDERSON, KY.—Bids are asked by City Clerk until Aug. 16 for construction of an artificial stone sidewalk, curb and gutter, etc., on Second St. J. H. Powell, Mayor.

LOUISVILLE, KY.—The Board Public Works have awarded contracts for improving with vitrified brick paving Ormsby Ave. and 16th St. to L. R. Figg. G. W. Gosnell will be awarded contract for paving with vitrified brick Seventh St. and 16th St. The total cost will be $27,000.

ASHLAND, O.—Francisco Bros., of Ironton, have been awarded contracts for street improvements here aggregating $62,000. Improvements include cement curb and gutter and fire-brick pavement.

BARNESVILLE, O.—Bids will be received about Sept. 15 for paving South St. with brick; est. cost, $8,000. E. M. Wilkes, Village Clk.

BOWLING GREEN, O.—Bids are asked by B. C. Harding, Audr., Wood County, until Aug. 29 for grading, draining, macadamizing and constructing earth or dirt roads. Plans and specifications may be seen at Auditor's office.

Bids are asked until Aug. 22 for grading, macadamizing, etc., of roads.

CAMBRIDGE, O.—Bids are asked by Chas. Blair, Secy. Brd. Pub. Service, until Aug. 29 for grading, curbing and paving North Seventh St. Plans and specifications on file in office of O. M. Hoge, Cy. Engr.

CINCINNATI, O.—Bids are asked by Board Public Service until Aug. 26 for the improvement of Strader Ave. by grading, setting curbs and paving the roadway with vitrified brick, and constructing the necessary drains and retaining walls, according to plans and specifications on file in office of Geo. F. Holmes, Clk.

CINCINNATI, O.—Bids are asked by Board Public Service until Aug. 31 for resurfacing Main St. with asphalt; also for the improvement of Smith St. by grading, setting granite curbs and crossings and paving roadway with granite blocks. Geo. F. Holmes, Clk.

CLEVELAND, O.—Bids are asked by Cuyahoga County Commissioners until Aug. 31 for improving Wooster pike and Bedford road. Specifications furnished by W. H. Evers, County Surveyor. Julius C. Dorn, Clk.

COVINGTON, O.—Bids are asked by Council until Aug. 18 for grading, curbing, macadamizing, etc., on Walnut St. Plans and specifications on file in office of C. R. Carlton, Clk.

GLENVILLE, O.—Bids are asked by Board Public Service until Sept. 5 for construction of a macadam road. C. C. Collacott, Pres.

HASKINS, O.—Bids are asked until Aug. 20 by L. A. Challen, Village Clk., for improving Findlay St. by curbing, sewering, tiling, building catch-basins and macadamizing.

LANCASTER, O.—Bids are asked by Board Public Service until Aug. 15 for grading and paving with vitrified brick, also constructing necessary curbs, gutters, etc., on High St. according to plans and specifications on file in office of Board. Geo. Cunningham, Clk.

NEWBURGH, O.—Bids are asked by Board Public Service until Aug. 17 for grading Hope St. W. H. Jantzen, Clk.

OBERLIN, O.—Specifications are on file at office of Engineering News, 220 Broadway, New York, for constructing about 10,000 sq. yds. of brick paving for this city. Bids are asked until Aug. 15, as stated in Engineering News of Aug. 4.

PRAIRIE DEPOT, O.—The Village Council has decided to improve Main St. by macadamizing, in conjunction with the County Commissioners. Estimated cost, $7,223.

SPRINGFIELD, O.—Bids are asked by Board Public Service until Aug. 16 for macadamizing on Highland Ave.

SPRINGFIELD, O.—The City Council has passed the ordinance for an issue of bonds, approximate [illegible] for the paving of Detroit St., and will probably pass an assessment ordinance at next regular meeting, after which contracts will be let.

TOLEDO, O.—Commissioners of Lucas and Henry Counties will construct jointly a stone road in Washington and Providence Townships.

WARREN, O.—E. M. Milligan, Cy. Engr., informs us that the following streets are to be paved with asphalt, none of which are yet advertised: South Pine, 1,382 sq. yds.; Phone St., 1,422 yds.; Forest, 3,056 yds.; East Market, 3,778 yds.; Mercer, 2,045 yds.; Belmont, 1,340 yds., and South Tod Ave., macadam, 6,461 yds.

WAPAKONETA, O.—Bids are asked until Aug. 31 by Chas. E. Fisher, Village Clk., for grading and graveling Dearbaugh Ave. and Benton St.

YELLOW SPRINGS, O.—Bids are asked by Council until Aug. 13 for construction of cement sidewalks, curbs and gutters on Dayton and North College Sts. and Xenia Ave. Plans and specifications on file in office of C. H. Ellis, Village Clk.

YOUNGSTOWN, O.—Council has passed ordinances to levy special assessments for construction of sidewalks on Webb, Davis and Seneca Sts.

RICHMOND, IND.—Bids are asked by Common Council until Aug. 15 for constructing cement sidewalks on South 20th St. Plans and specifications on file in office of John F. Taggart, Clk.

COLUMBUS, IND.—Bids are asked until Aug. 18 by City Council for paving Washington St. with asphalt excepting space between the rails of local car track and Indianapolis, Columbus & Southern, together with 18 ins. on either side of rails shall be paved with vitrified brick.

MONTPELIER, IND.—Bids are asked until Aug. 16 for grading and paving several streets. J. F. Jones, Cy. Clk.

ATTICA, IND.—Bids are asked until Aug. 15 by Common Council for improving by grading, paving with brick and constructing concrete sidewalks on a portion of Perry St. Sam Turman, Cy. Clk.

RICHMOND, IND.—$10,000 will be expended in this county in repairing and improving gravel roads.

RIVER PARK, IND.—Bids are asked by Arthur Mawson, Clk., until Aug. 15 for grading and improving of 19th and Pleasant Sts.

WINAMAC, IND.—Bids are asked by Pulaski County Commissioners until Aug. 20 for constructing 24 miles gravel road. Plans and specifications on file in office of Ellis S. Rees, County Audr.

LINCOLN, ILL.—Bids are asked until Aug. 15 for 12,200 lin. ft. cement curb and gutter and 16,854 sq. yds. brick block pavement on 6-in. Portland cement concrete foundation. Plans and specifications on file with J. G. Mellish, Cy. Engr., office 222 Unity Bldg., Bloomington, and R. M. Berry, Cy. Clk.

MOLINE, ILL.—44 blocks of paving and five miles of sidewalks will be done here this year. Fred Fiske is St. Comr.

CHICAGO, ILL.—Bids are asked by Board Local Improvements until Aug. 17 for improving of several streets. Plans and specifications on file in office of Board, 216 City Hall. John A. May, Secy. of Brd.

OSHKOSH, WIS.—Bids are asked by Board Public Works until Aug. 29 for grading and macadamizing George St. Plans and specifications on file in office of City Clerk.

RACINE, WIS.—James Cape & Sons have been awarded the contract for building a macadam road three miles long near Highland Park, Ill., at a cost of $50,000, thus completing the Sheridan drive from Chicago to Waukegan. Within a few years this drive will be continued through Racine to Milwaukee.

OTTUMWA, IA.—C. R. Allen, Cy. Engr., writes us that bids will be received until Aug. 15 for 10,000 sq. yds. brick paving and 5,000 lin. ft. cement curb.

DES MOINES, IA.—Bids are asked by Board Public Works until Aug. 20 for paving on West 23d St. with asphalt, about 5,311 sq. yds.

CENTERVILLE, IA.—The proposed paving ordinance was passed. Contracts will be let the last of August.

OMAHA, NEB.—Park Board awarded two large contracts for asphalt and macadam pavement on Southeast and Florence boulevards. The work will cost from $21,000 to $23,000. The asphalt contract was awarded to the Barber company, at $1.89 per sq. yd., and the macadam contract to E. D. Van Court at 69 cts. per sq. yd.

DENVER, COLO.—Extensive street improvements to cost $350,000 are contemplated on the North Side; 300 blocks are proposed to be paved, graded, surfaced, guttered and curbed.

Contracts were awarded by the Board Public Works for the grading, curbing and surfacing of East Colfax Ave. improvement district No. 1. The work for grading and surfacing was let to P. J. Tirsway for $42,800. The Colorado Construction Co. was awarded the work of curbing and part of the grading for $22,000. Work will begin at once.

GUNNISON, COLO.—Bids are asked until Aug. 18 for construction of a wagon road beginning near Irwin, thence to Anthracite Creek to Coal Creek. L. G. Carpenter, State Engr.

SEATTLE, WASH.—The following improvements have been awarded by Board Public Works: Occidental Ave., grading, sewering, paving, etc., Stirrat & Goetz, $63,143; Terry Ave. and Alder St., asphalt paving, Barber Asphalt Co., $12,525; Tenth Ave. North, et al., grading, S. Normile, $21,280.

SEATTLE, WASH.—The following improvements have been ordered by City Council: Queen Anne Driveway, asphalt paving, etc., $42,000; Fourth Ave. North, sewer, $1,900; Boren Ave., et al., concrete walks, $20,600; John St., concrete sidewalks, $4,600; Eleventh Ave., concrete walks, $1,590.

Bids are asked until Aug. 20 for the following improvements: Queen Anne Driveway, et al., asphalt paving and sandstone block paving, est. cost, $42,000; First Ave. North, sewer, $2,700; Latona Ave., et al., water mains, $20,200; Seventh Ave., concrete walks, $11,350; Ward St. and Warren Ave., grading, etc., $13,900. R. H. Thomson, Cy. Engr.

TACOMA, WASH.—L. H. Pearson, Contract Clk., office of Comr. Pub. Wks., writes us that this city awarded contracts July 25 to the Barber Asphalt Co. for $63,760 for construction of asphalt pavement on two streets, and separate contracts of 2.8-10 cts. per sq. yd. per year for maintenance for 10 years. Considerable work is projected for the immediate future.

SAN MATEO, CAL.—Bids are asked by R. H. Jury, Cy. Clk., until Aug. 15 for macadamizing Poplar Ave. D. Bromfield is Cy. Engr.

OAKLAND, CAL.—Bids are asked by City Clerk until Aug. 15 for curbing with redwood and macadamizing Shattuck Ave.

YUMA, ARIZ.—Bids are asked by Board of Supervisors until Oct. 3 for construction of a road from Kofa to Quartzsite via Yaqui Tank, Alama Springs and New Wayer Springs. C. P. Cronin, Clk. of Brd.

SALT LAKE CITY, UTAH.—Following bids were received July 29 for grading, curbing and paving on (1) South Temple St. and (2) First St.: P. J. Moran, (1) $121,135, (2) $17,361; City Street Improvement Co., (1) $109,333, (2) $19,417; Barber Asphalt Paving Co., (1) $124,366, (2) $20,020; Warren Bros. Co. and Edmund Wilkes, (1) $124,663, (2) $19,694.

WINNIPEG, MAN.—The City Council has given notice of its intention to call for tenders within 30 days for the following work: Asphalt pavement, $70,715; granolithic sidewalks, $11,590; sewers, $44,310; cedar block pavement, $2,652, and plank sidewalk, $2,350.

MANUFACTURING PLANTS.

BOSTON, MASS.—The Colonial File Co. has applied for a building permit for a new factory at Dorchester. The company has nearly 24,000 sq. ft. of land for a site.

LYNN, MASS.—A large part of the Eastern Kid Co.'s factory, Patrick Lennox & Co., owners, on Marion St., was damaged by fire, causing a loss estimated at $75,000.

WORCESTER, MASS.—The Crompton & Thayer Loom Works has awarded the contract for an addition to its shops, 50x200 ft.

OLNEYVILLE, R. I.—It is announced that the Earnscliffe Mill will add a new building, 220x58 ft., two stories high. Work to begin at once.

SHELTON, CONN.—Plans are being made for a 4-story addition to plant of the Specialty Weaving Co.

BUFFALO, N. Y.—The Buffalo General Electric Co. has arranged to increase its capital stock from $2,600,000 to $5,000,000. The additional capital will be used for extending the company's facilities and for making improvements upon its plants, including an addition.

LONG ISLAND CITY, N. Y.—Varnish works of Ed. Smith & Co. was damaged by fire. Loss, $100,000.

ELBRIDGE, N. Y.—The Kaken Steel Co. has been incorporated with a capital stock of $100,000 by Monroe C. Smith and others. The company will build a plant for the manufacture of steel rough boxes.

GREENVILLE, N. J.—The Stillman Co., Jersey City, has been awarded the contract for the new car repair shop for the Pennsylvania Railroad Co. Power house, roundhouse, machine shops, etc., of brick, one and two stories will be erected. Work to be started at once.

ARDMORE, PA.—Estimates are being received by the Autocar Co. for the erection of a new machine shop, plans for which were drawn by Lockwood, Greene & Co., 93 Federal St., Boston, Mass. The building will be of brick, three stories with basement, and 44x200 ft. The details of equipment have not yet been settled.

CHESTER, PA.—Extensive enlargements are contemplated at the lace mills of the T. I. Birkin Co. in the near future. The capacity of the mill will be greatly increased.

EMAUS, PA.—A silk mill may be established here. Board of Trade can inform.

LANSFORD, PA.—The Lehigh Coal & Navigation Co., will enlarge its foundry and machine shops by the erection of new buildings. New cranes will be operated by electricity, power for which will be supplied from a power house, also to be built. A locomotive house will be built and the car shops enlarged.

MONESSEN, PA.—The Seamless Tube Co. of America, will erect a plant at Monessen and establish offices in Pittsburg. The machinery to be used is now being manufactured at Dusseldorf, Germany. The company has plans for the erection upon a 10-acre site of a building 600x100 ft.

PHILADELPHIA, PA.—The Schutte & Koerting Co., machinery manufacturers have purchased the property in North 12th St., adjoining its plant, and will erect an addition to the factory.

The Penn Iron Foundry Co., Gillingham and Hedge Sts., have invited bids for a foundry on Church and Lackawanna Sts. Brick, 1 story, 75x150 ft.

ANNAPOLIS, IND.—The Amherst Knitting Mill is considering moving to this city. Business Men's Association can inform.

MARTINSVILLE, VA.—A large addition is planned to the tobacco factory of Spencer Bros., a location for which has already been surveyed which will extend from the rear of the present factory on Church St.

SISTERSVILLE, W. VA.—W. H. Noll, Jos. Steele and Frank Wagoner will erect a plant here for the manufacture of cement building blocks. The capacity will be 60 blocks an hour. These blocks will be manufactured from cement, sand and gravel.

GRAHAM, N. C.—It is stated that the Southern Service Corporation, of Washington, D. C., will erect an ice factory here. J. C. Simmons, Mayor, can inform.

ROCK HILL, S. C.—The Chicora Cotton Mills' plant will be enlarged. New machinery will be put in, including electric motors. They have 192 looms and 7,904 spindles.

CHARLESTON, S. C.—The Ingleside Mining & Mfg. Co. will increase its capital to $75,000 and add the manufacture of fertilizers. W. H. Welch is Pres.

UNION, S. C.—A steam laundry will be established here by A. M. Estes and S. J. Hames.

COLUMBUS, GA.—John T. Abney, of Laurens, S. C., will erect a 20,000-spindle cotton mill here.

MACON, GA.—The Macon Cooperage Co. will rebuild its plant, which was burned recently.

MARIETTA, GA.—The Marietta Knitting Co. will erect an addition to its mill and add new equipment.

PENSACOLA, FLA.—The following bids were received Aug. 6 by Bureau of Yards and Docks, U. S. N., Washington, D. C., for shops and offices and equipment at Navy Yard; for Item 1: Penn Bridge Co., Bond Bldg., Washington, D. C., $126,489; A. F. Withrow & Co., Charleston, W. Va., $147,000; Conners Bros. Const. Co., 16 Thorndike St., Lowell, Mass., $148,000; Snare & Triest Co., 39 Cortlandt St., New York, $152,000; Moise De Leon, 508 English-American Bldg., Atlanta, Ga.; John C. Robinson, 113 Adams St., Chicago, Ill., $143,000.

JACKSONVILLE, FLA.—The Meller Mfg. Co., whose plant was recently destroyed by fire, will rebuild at once.

ANNISTON, ALA.—The Southern Electric & Mfg. Co. will erect a large plant at this place with laboratory, machine shops, etc., to cost about $100,000. Frank G. Lake is Pres.

ANNISTON, ALA.—A plant for the manufacture of sand lime bricks will be erected here. Chas. G. Morris can inform.

BRIDGEPORT, ALA.—Saw and planing mill owned by M. B. Clemmons was destroyed by fire. The plant will be rebuilt at once.

COLUMBUS, MISS.—A plow and farm implement factory will probably be located here. Secretary of Progressive Union can inform.

LAUREL, MISS.—The Eastman-Gardner Co. will erect a lumber mill here with a capacity of 250,000 ft. per day.

TUPELO, MISS.—C. R. Strain, C. P. Long and others are members of a stock company here that will proceed to erect a fertilizer factory at a cost of about $75,000.

HALL'S, TENN.—Farnsworth & Pugh will erect a cotton gin here.

CLARKSVILLE, TENN.—It is announced that the Woerner Packing & Preserving Co., of Liverpool, N. Y., will erect factory here some time during the coming winter.

CHATTANOOGA, TENN.—The Chattanooga Coffin & Casket Co. has been organized with $75,000 capital. The incorporators are: E. R. Betterton, R. C. Campbell, H. C. Abercrombie, P. J. Casey and F. B. Colts. The company will manufacture coffins and caskets.

DICKSON, TENN.—The erection of a cannery is contemplated. R. H. Hicks can give information.

KNOXVILLE, TENN.—Construction work on cold storage plant to be erected by W. J. Oliver and associates will begin Oct. 1.

CINCINNATI, O.—Application has been made by the American Oak Leather Co. for a permit to erect a 7-story concrete factory on Flint St. at a cost of $100,000.

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GENEVA, O.—The Cleveland, Painsville & Ashtabula Co. will erect a car house and repair shop near Geneva, and will buy an equipment of machine tools.

INDIANAPOLIS, IND.—The Indianapolis D[illegible] Forging Co., whose plant was recently destroyed by fire, expects to rebuild at once. The company is in the market for considerable new equipment.

HAMMOND, IND.—Reid, Murdock & Co., of Chicago, Ill., will build a one-story factory here to cover [illegible] acres of ground.

ADRIAN, MICH.—The Adrian Steel Casting Co. has been organized with a capital stock of $30,000 to make casting under the process of A. H. Davies, of Cleveland, O.

CHICAGO, ILL.—Plans have been completed by C. A. Eckstorm for a manufacturing building to be erected at Sangamon and 19th Sts. for O. D. Beardsley. The building is to be four stories, 84 × 119 ft. Cost, $40,000.

BURLINGTON, IA.—It is reported that the Champion Funding & Foundry Co., will be in the market shortly for a complete equipment for its new factory and foundry building, including three lathes, an engine, and complete complement of tools.

KANSAS CITY, MO.—Plans for the new plant for Roach & Kienzie Sash & Door Co. are being prepared by Rudolph Markgraf, New Nelson Bldg. A number of buildings will comprise the new plant. Among them are the main warehouse, 100 × 145 ft.; power house, 85 × 45; planing mill, 205 × 74; dry kiln, 80 × 45; lumber shed, 154 × 75; molding shed, 75 × 125, and stables, 30 × 36. The total cost of the plant, it is estimated, will be $75,000. The plans call for the completion of all the buildings by Jan. 1.

Mr. Markgraf is also drawing plans for a new building for the Silver Laundry & Towel Co., on Campbell St. Including the main building, power house and stables the plant will cover a ground area of 165 × 125 ft. It will be constructed of brick and steel and cost $35,000.

The Smith Baking Co. will erect a plant, two stories, 130 × 218 ft., at 18th and Cherry Sts. Cost, $40,000. R. Markgraf is Arch.

ST. LOUIS, MO.—Three large buildings are to be erected this fall on the block bounded by Main, Second, Cedar and Gratiot Sts. for the Crunden-Martin Woodenware Co. Will be the second largest wholesale plant of its kind in the world. The largest of the buildings, which includes the main office, will occupy a ground area of 377 × 110 ft. The plans for the improvements, which aggregate $260,000, have been made by Mauran, Russell & Garden, Archs.

CLEBURNE, TEX.—The Trinity & Brazos Valley Ry. Co. has let contracts for shop buildings. There will be a machine shop, 100x140 ft.; an engine house, 36x140 ft., and a blacksmith's shop, 24x40 ft. The engine house will have a capacity of eight locomotives.

DALLAS, TEX.—The Murray Gin Co., manufacturers of cotton gin machinery, will erect a number of new buildings and install new machinery. Contracts have been let. A. A. Vardell is consulting engineer of the company. The new buildings include a power house, office, machine shops, wood, tin and finishing shops, foundry, store room and planing mill. The machinery will be operated by electricity.

BROWNWOOD, TEX.—The Lambertson Mill & Grain Co. has been organized here with a capital stock of $50,000 for the purpose of erecting and operating mills, gins, elevators and public warehouses. W. P. Lambertson is one of the incorporators.

FORT WORTH, TEX.—W. K. Fogg and associates, of Alliance, O., will locate a bolt and forging manufactory here. Cost, $250,000.

HOUSTON, TEX.—A factory will be erected here by W. G. Leggett for the manufacture of pencil wood and pen staffs.

NORTH BEND, ORE.—The Coos Bay Box Veneer Co. will erect a factory here. Est. cost, $50,000.

OAKLAND, CAL.—O. McHenry, of Modesto, who is connected with the Co-operative Heat Assn. of this city, states that a large warehouse and storage plant will be built about five miles from Modesto for curing meat. The company will manufacture its own ice and cold storage apparatus will be installed. Cost, $100,000.

MONTREAL, QUE.—Permit was issued to the Dominion Oilcloth Co. to build a 5-story factory on Porthenais St. Cost, $75,000. A permit was also granted to Hugh Patton for a factory on Richmond St. Cost, $30,000.

SYDNEY, N. S.—Wellman-Seaver-Morgan Co., of Cleveland, have been awarded the contract for building complete the new rail mill to be installed by the Dominion Iron & Steel Co., Ltd., at their works here. Work will begin at once.

MISCELLANEOUS CONTRACTS.

BOARD WALK.—Holly Beach, N. J.—City Council has decided to build a one mile long, 32 ft. wide, board walk.

TELEPHONE SYSTEM.—Fullerton, Cal.—Home Telephone Co. has applied for franchise for telephone system here.

OIL COMPANY.—Austin, Tex.—Big Hill Oil & Fuel Co. has been incorporated with $96,000 capital. Lewis Emory, Jr., Bradford, Pa., is Pres.

STEEL WHARF.—San Francisco, Cal.—Contract for building steel wharf on Angel Island has been let to City Street Improvement Co., for $16,760.

RIVER IMPROVEMENT.—Asbury Park, N. J.—Belmar Yacht Club is considering construction of jetty at est. cost of $5,000 for improvement of Shark River.

DUMP BOAT.—St. Louis, Mo.—Bids are asked by Board Public Improvements until Sept. 6 for construction of floating scavenger dump boat. Hiram Phillips, Pres.

STREET GRADES.—Dyersville, Ia.—G. H. Merridith, Cons. Engr., Kimball Building, Cedar Rapids, Ia., has been engaged to design a complete system of grades.

PUBLIC DOCK.—Elizabeth, N. J.—Common Council, Geo. A. Ford, Pres., is stated to favor erection of public dock and recreation pier on the Kills at Elizabethport.

FIRE PROTECTION.—Detour, Mich.—C. A. Seymour, Village Clk., writes us that fire protection system is proposed.

LEVEE.—Pine Bluff, Ark.—Contract for building the Frenchtown levee has been let to J. F. Higdon, Alexandria, La.

DITCH.—Sidney, Ia.—Petitions are to be presented to County Court for 12-mile ditch to drain waters of Plum Creek into Missouri River.

SMOKE STACK.—Joliet, Ill.—Bids are asked by City Clerk until Aug. 15 for furnishing material, erecting and completing a circular steel stack 66 ins. by 120 ft. at the plant of the Joliet Water-Works. Matt Berscheld, Cy. Clk.

DITCH.—St. Paul, Minn.—Contract for constructing Shotley Branch Ditch, requiring 16,500 cu. ft., earth excavation has been let to John Koehler. Est. cost is $3,500.

TELEPHONE FRANCHISE.—Santa Ana, Cal.—C. D. Lester, County Clk., is calling for bids until Sept. 7 for purchase of franchise to operate telephone lines in Orange County.

FIRE ENGINE.—Buffalo, N. Y.—Bids are asked by Board Fire Commissioners until Aug. 22, for one second-size steam fire engine of the piston style. Simon Seibert, Fire Comr.

ARTIFICIAL LAKE.—Ashland, Ore.—Local reports state that surveyors have been at work to decide on feasibility of construction of proposed artificial lake north of this place.

DOCKS, ETC.—Buffalo, N. Y.—Detroit & Buffalo Steamboat Co., George Hendrie, Pres., Detroit, Mich., is stated to have purchased site at foot of Erie St., for erection of steamboat terminal.

GRAIN ELEVATOR.—Toledo, O.—United Grain Co.'s elevator near Bellevue Park is stated to have been destroyed by fire Aug. 1. Elevator was erected three years ago at a cost of $100,000.

SUBWAY.—Oswego, N. Y.—Empire State Telephone & Telegraph Co. has been granted franchise to build subway in West Second St., between West Oneida and Mohawk Sts. Work is to begin Aug. 15.

LEVEE.—New Orleans, La.—Levee Board is stated to have awarded contract for enlargement of levee along west bank of Orleans outfall canal to Michael Mitchell, 1400 Tulane Ave., New Orleans, for $5,580.

LEVEE.—New Orleans, La.—J. T. McClellan, Pres. Fifth Louisiana Levee District, is reported to be calling for bids until Aug. 17 for construction of new section of Kemp levee. Major F. M. Kerr is Ch. Engr.

LEVEES.—Topeka, Kan.—Citizens of North Topeka will petition county commissioners for building of flood protection levees. County Surveyor Rogers is reported as saying that levees could be built for $10,000.

LOCK GATES AND ANCHORAGES.—Pittsburg, Pa.—Bids are asked by the U. S. Engineer Office until Sept. 8 for building and erecting in place four pair of lock gates and anchorages. (Advertised, Engineering News.)

FIRE ENGINES, HOSE, ETC.—Montgomery, Ala.—Bids are asked until Aug. 15 for furnishing the city with one first-class steam fire engine, one chemical engine, two hose wagons and 4,000 ft. of hose. R. S. Williams, Cy. Treas.

WHARF.—New Orleans, La.—Bids are asked by Board of Port Commissioners of New Orleans, until Aug. 16 for construction of Toulouse St. wharf; materials to be furnished by Board. J. F. Coleman, Engr.; Hugh McCloskey, Pres.

DOCK.—San Francisco, Cal.—Harbor Commissioners have rejected all bids for construction of New Pacific Mail dock, and it is likely that less expensive pier will be built. Healy, Tibbitts & Co., at $268,314, was low bidder.

DAM.—Newton, Mass.—Park Commissioners and mill owners are stated to have reached an agreement by which the former will build a concrete dam across the Charles River at Newton Lower Falls to replace present wooden structure.

DOCKS.—Baltimore, Md.—Ordinance was to come before Council Aug. 8, appropriating $3,000,000 from the dock loan to be used by the Burnt District Commission for the construction of docks and piers and the widening of Pratt St.

DIKE.—East St. Louis, Ill.—Local reports state that Thomas Chase of East St. Louis has secured the contract for building a large dike along the Mississippi River in Scott County, Ill. The work will require about 1,000,000 yards of filling.

COAL STORAGE PLANT.—Philadelphia, Pa.—The Philadelphia & Reading Coal & Iron Co. is stated to have awarded contract for grading and masonry for the new 500,000-ton coal storage plant at Abrams to Smith & Co., Mahanoy City, Pa.

LEVEE REPAIRS, CANAL.—Sacramento, Cal.—City Survevor Pierson has submitted plans and specifications to City Trustees for repairing levees and for drainage canal for Burn's Slough, setting cost of former work at $85,000, and latter at $80,000.

DITCH AND TILE.—Kangley, Ill.—Bids will be received by J. O. Reedes, Comr., at Town Clerk's office, Kangley, until 1 p. m., Aug. 15, for digging ditch and laying tile as follows: 6,000 ft. 20-in., 6,000 ft. 18-in., 4,000 ft. 15-in., and 2,500 ft. 12-in. tile.

MANILA ROPE, LUMBER.—New York, N. Y.—Bids are asked by Dock Commissioner, Pier A, Battery Pl., until Aug. 16 for furnishing and delivering Manila rope; also for furnishing and delivering sawed new yellow pine timbers. Maurice Featherson, Comr.

DRY DOCK.—New Orleans, La.—Messrs. Woodward, Wright & Co., Maurice Stern, Frederick Camors and George Hero have purchased a portion of land in Algiers on which, it is stated, one of the largest private dry docks in the South will be established.

CONCRETE STEEL DAM.—Woonsocket, R. I.—The Ambursen Hydraulic Construction Co., Boston, Mass., have been employed as contracting engineers in the building of a concrete-steel gravity dam for the Guerin Spinning Co., of Woonsocket, R. I.

SEA WALL.—Galveston, Tex.—Specifications and bidding sheets for construction of sea wall at Fort Crockett Reservation, Galveston, are on file at office of Engineering News, 220 Broadway, New York. Bids are asked until Aug. 24, as advertised in Engineering News.

LEVEE WORK.—Brazil, Ind.—Contract for building eleven miles of levee along Eil River in Harrison Township has been let to Sidener & Hert, Greencastle, Ind., for $11,700. Contract for flood gate work was let to Maloney Bros., Greencastle, Ind., for $2,961.

ELEVATOR, ETC.—Washington, D. C.—Bids are asked by the Commissioners until Sept. 5 for furnishing and installing one freight elevator and hydraulic operating engine at the Sewerage Pumping Station. Henry B. F. Macfarland, Comr. (Advertised, Engineering News.)

CRANE.—Philadelphia, Pa.—Following bids were received Aug. 2 by Peter E. Costello, Dir. Pub. Wks., for furnishing traveling crane for new pumping station: North Penn Iron Co., $7,263; William Sellers & Co., $7,720 and $7,585; Borten & Tierney, $8,880; Alfred Box Co., $7,250.

LIBRARY STACK WORK.—New York, N. Y.—Bids are asked by Park Board, Fifth Ave. and 64th St., until Sept. 22 for work and materials for erection and completion of the library stack work in the New York Public Library, Astor, Lenox and Tilden foundations, Fifth Ave., 40th and 42d Sts.; $100,000 security required. John J. Pallas, Pres.

BOILER.—Youngstown, O.—Bids are asked by the Board of Public Service until Aug. 18 for furnishing and erecting on foundations furnished by the city 4 steam boilers, 2 of 125 HP. each, and 2 of 200 HP. each, at the filter plant and pumping stations respectively. G. D. Prosser, Clk. (Advertised, Engineering News.)

QUAY WALLS AND PIERS.—Portsmouth, N. H.—Specifications are on file at office of Engineering News, 220 Broadway, New York, for constructing about 730 ft. of quay wall and a 400-ft. pier at Portsmouth Navy Yard. Bids for the work are asked by Bureau Yards and Docks, Washington, D. C., until Sept. 3.

DRAINAGE.—Lincoln, Neb.—Lawyer Albert D. Cadwallader is stated to have been preparing papers for proposed widening and deepening of Salt Creek from the C. & A. bridge south of Lincoln across Broadwell and Corwin townships, west to the Mason County Line. Cost of projected improvement is set at over $100,000.

GRAIN ELEVATORS.—Minneapolis, Minn.—Van Dusen-Harrington Co., which controls several grain elevators, is stated to have had plans made for erection of six new elevators. The Home Grain Co., of Kansas City, Mo., is to be incorporated to operate the new lines. Chas. W. Longsdale, Kansas City, Mo., may be interested.

STEEL, IRON, ETC.—Chicago, Ill.—Bids are asked until Sept. 9 for the manufacture and delivery of over 1,500 tons of steel, iron, etc., for aqueduct bridges, sluice gates, lock gates, valves, operating machinery, etc. L. L. Wheeler, Asst. Engr., Sterling; Jas. C. Long, Wyanet; Maj. C. S. Riche, Engrs. (Advertised, Engineering News.)

PIG IRON.—Pittsburg, Pa.—It is stated that a contract for pig iron and steel has been closed between the Pittsburg Steel Co. and the Republic Iron & Steel Co., which involves the delivery of 110,000 tons of billets to the Pittsburg company at its works at Monessen within the next ten months. The contract involves about $2,000,000.

GAS TUNNEL.—New York, N. Y.—Consolidated Gas Co. has secured appointment of Commission to condemn land necessary for construction of its new gas tunnel under the East River. It is proposed to make the gas in Astoria, L. I., and to send it to New York by pipe lines. The tunnel is to extend from Lawrence Point, Astoria, to 110th St., New York.

FIRE CISTERNS.—Dayton, O.—Bids are asked by the Board of Public Safety until Aug. 16 for the construction of 25 fire cisterns, more or less. Bids to be made both on brick and concrete, and in accordance with the plans and specifications on file. Certified check, $1,000. Plans on file at office of Folsom & McDargh, Consult. Engrs., Conover Bldg., Dayton, O.

RIVER IMPROVEMENT.—Buffalo, N. Y.—George R. Sikes, Engr., has reported plans to the Manufacturers Club for the improvement of the Niagara River, which if carried out would cost $4,144,459. Scheme proposes construction of steel bulkhead dividing American from Canadian waters. The river would also be dammed at Tonawanda and another steel bulkhead built.

RIVER IMPROVEMENT.—Sacramento, Cal.—State Board of Public Works has selected Major T. C. Dabney, Clarksville, Miss., Henry B. Richardson, New Orleans, La., and Capt. H. M. Chittenden, Sioux City, Ia., to examine into and report upon the navigability and drainage conditions of the Sacramento and San Joaquin Rivers and their tributaries, and to report a comprehensive plan for their improvement.

MUNICIPAL IMPROVEMENTS.—San Francisco, Cal.—Supervisors are to sell on Oct. 3 a bond issue allotted as follows: Hospital bonds, $250,000; sewer bonds, $724,000; school bonds, $1,077,000; street bonds, $243,000; county jail and hall of justice bonds, $278,400; library bonds, $739,800; children's playground bonds, $740,000; Golden Gate Park and Presidio extension bonds, $328,000; Telegraph Hill Park bonds, $596,000; Mission Park bonds, $292,000.

DITCH, LEVEES, ETC.—Columbus, O.—Bids are asked by the Board of Public Service until Aug. 31 for excavating a ditch and building levees and masonry structures in connection therewith, consisting of 23,000 cu. yds. excavation, 247,000 cu. yds. embankment, 2,900 cu. yds. concrete, 25,000 lbs. miscellaneous iron work, reconstructing two sewer outlets, etc. Chas. H. Frank, Secy. (Advertised, Engineering News.)

RIVER WORK.—Wellsville, O.—Bids are asked by the Board of Water-Works Trustees until Aug. 19 for doing all river work in connection with the new pumping station. This is to include the installing of 12 filter wells and laying two suction lines to mouth of tunnel; city to furnish all well, pipes and piping material. Robt. W. Hunt & Co., Engrs., Monongahela Bank Bldg., Pittsburg, Pa. C. C. Ewing, Supt. Water-Works. (Advertised, Engineering News.)

LEVEE WORK, WIRE ROPE, ETC.—Memphis, Tenn.—Bids were opened here July 28 by Capt. E. W. Van Lucas, U. S. Engrs., for constructing levees and for furnishing wire, wire strand, rope, brush poles and stones for 1st, 2d and 3d Districts. Bids recommended for acceptance for levee work are as follows: Talley-Bates Construction Co., Memphis, Tenn., seven sections in 1st and 2d Districts, totaling $131,634, and one section in 3d District, at $1,520; Lawrence Bros. & Leonard, Friars Point, Miss., three sections in 1st and 2d Districts, totaling $82,633; Geo. B. Vaughn, Natchez, Miss., three sections in 1st and 2d Districts, totaling $58,049; Lewis & Jennings, Memphis, Tenn., two sections in 1st and 2d Districts and four sections in 3d District, totaling $130,920; Cary Bros., Memphis, Tenn., one section in 3d District, $30,000; McCadden, Morgan & Co., Memphis, Tenn., three sections in 3d District, totaling $93,600; Donovan & Daley, Lake Providence, La., three sections in 3d District, totaling, $49,926. For furnishing wire, wire strand, rope etc., following bids were recommended for acceptance: H. E. Coffin, Memphis, Tenn., silicon bronze wire No. 9, $1,298; Manila rope, $5,524. William S. Bascom, St. Louis, Mo., galvanized wire No. 12, $2,200; ½-in. wire strand, $4,390; ⅜-in. wire strand, $562; 5-16-in. wire strand, $3,290; ¼-in. wire strand, $9,395; wire staples No. 9, $1,667. Eugene Nowland & Co., Memphis, Tenn., cable clips, $2,520. For furnishing brush, poles, etc., following bids were recommended for acceptance: Hunter & Frey, Memphis, Tenn., 63,500 cords brush, $69,780; 2,300 cords poles, $4,600. J. J. Ball & Co., Arkansas City, Ark., 58,000 cu. yds. rip-rap stone, $98,420; 14,500 cu. yds. quarry spalls, $24,605.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

MINING NOTES.

SMELTER.—Denning, N. Mex.—Luna Lead Co., S. R. Bush, Easton, Pa., according to reports, is to build a smelter here.

COAL COMPANY.—Jasper, Ala.—Gayosa Coal Co. has been incorporated with $100,000 capital. A. B. Preston and H. P. Gibson are interested.

COAL MINING.—Madisonville, Ky.—Reinecke Coal Mining Co., Madisonville, according to reports, is to open up a large coal mine in Manitou County.

HOIST AND MILL.—Placerville, Cal.—Local reports state that Red Raven Mining Co. will erect hoist and mill at Red Raven Mine, two miles north of Shingle Springs.

MINING MACHINERY.—Globe, Ariz.—Lake Superior & Arizona Mining Co. will have a test made of its ore to determine the kind and capacity of machinery required for handling it.

SMELTER.—Kingman, Ariz.—Local reports state that it is proposed to build a smelter on the Ruby group of mines soon as they are sufficiently developed. They are bonded to Ben Blanchard by William Mack.

SMELTER FURNACE.—Salt Lake City, Utah.—It is probable that the Bingham Consolidated Smelter in Salt Lake valley will be equipped with a sixth furnace before the expiration of the year. E. L. White is Pres.

SMELTER.—Salt Lake City, Utah.—Salt Lake "Tribune" quotes Frank B. Many of Cleveland, O., an official of the Dutchman Co., operating in American Fork canyon, as stating that another smelter is to be erected in Salt Lake Valley.

MINING MILL, ETC.—Salt Lake City, Utah.—Local reports state that the owners of the Continental-Alta mines at Alta, Utah, will soon begin the installation of an electric plant and the construction of an up-to-date mill. Henry M. Crowther is Pres and Gen. Mgr.

SMELTING PLANT.—Bingham, Utah.—The management of the Yanpa Smelting Co. at Bingham is stated to have decided to provide its plant with aditional equipment, with a view of doubling the present capacity of 200 tons. It is hoped to have the plant ready for commission by Nov. 15.

SMELTER.—Martinez, Cal.—Mountain Copper Co., according to reports, is to remove its copper smelters from Keswick to this place and is stated to have decided to use a new method of smelting by which the fumes will be converted into acids and the sulphur in the ore saved for market consumption.

SMELTER.—Redding, Cal.—Fred. G. King, Denver, Colo., and John Filius, Boston, Mass., have purchased the Mammoth copper property, comprising 900 acres of land and 5,000,000 tons of ore near Kennet. The plans of the purchasers are stated to provide for the erection of a 500-ton smelter within 60 days.

CONCENTRATOR.—Salt Lake City, Utah.—Local reports state that the Allis-Chalmers Co. has secured the contract for the concentrator with which the properties of the Britannia Mining Co., out of Vancouver, are to be equipped, the plant to be in commission or or before Feb. 1 next. It is reported that Geo. H. Robinson, Mgr., will expend about $300,000 in equipment.

U. S. POSSESSIONS AND CUBA.

WATER-WORKS.—Cuba.—Cuban Government has authorized the beginning of the construction of water-works for Santiago, and has decided to ask for bids.

MINING.—Alaska.—William F. King, of the Merchants' Association of New York, and his associates have purchased a number of important mining properties at Nome, Alaska, and are organizing the Mead Development Co. to own and operate them.

MINING WORK.—Alaska.—Word has been received from Benedict Crowell, of Crowell & Peck, Mining Engineers, 731 Williamson Bldg., Cleveland, O., who is examining mining properties in Alaska, that mining operations are quite active in that section and that a number of new properties are rapidly being put in shape for producing ore.

ELECTRIC RAILWAY.—Manila, P. I.—Ex-Governor A. U. Betts, of Albay, is reported to have left for the United States to secure capital for an electric railway. The proposed route for the line will be from Legaspi through Albay, taking in the towns of Daraga, Camaling, Guinobatan and Ligao. It is also proposed to run a line to Tabaco and to furnish light and power for the towns along the route.

WATER-WORKS AND SEWERS.—Manila, P. I.—Plans for proposed water supply and sewerage system for this city have been submitted to the Secretary of War by Major J. F. Casey, Cy. Engr. The plans have received the approval of the municipal board of Manila and have been favorably reported upon to the Secretary of War by an eminent consulting engineer sent to the Philippines. The new water supply will be brought to the city of Manila by gravity through a pipe line from the heights at the head of the Mariquina Valley, a distance of 16 miles, at a cost of $4,000,000. Steps are to be taken soon toward letting of contracts.

MEXICO.

RAILWAYS.

CHIHUAHUA.—Chihuahua & Pacific R. R. has acquired additional lands, which will be used for yards, etc.

CITY OF MEXICO.—It is reported that the National Railway Co. will apply for a concession to extend its line from Uruapam to Colima, thus connecting with the line already operating from the latter city to the port of Manzanillo, on the Pacific Coast. The concession held by the Mexican Central to build to Colima has but about a year and a half to run, but construction has been suspended for some time, and it will be impossible to complete the line in the time covered by the concession.

DURANGO.—Engineers are stated to be in the field between Durango and the Port of Mazatlan, making surveys for the proposed extension of the Mexican International R. R. to Mazatlan. Mexican Government is reported to stand ready to grant subsidy for building the line.

MICHOACAN.—Ignacio Sepulveda, City of Mexico, representing the company which is to build a railroad from Piedad to Tacambaro, in the State of Michoacan, has secured an extension of five years in which to complete the line, which fixes the date for the completion of the road as May 25, 1910.

MAZATLAN, SINALOA.—Chamber of Commerce of Mazatlan has signified its willingness to assist in the construction of the proposed railroad from that city to Culiacan. L. L. Warfield is promoting the project.

MONTEREY.—Imperial Mexican Lumber Co., whose mill is situated 24 miles from this place, will, it is said, build a seven kilometer long narrow gage road. Gregorio Osuma, Saltillo, is Gen. Mgr.

READERS' WANTS

This Department contains special requests, and detailed items, from persons in the market for supplies, and from others asking for the names and addresses of firms manufacturing certain tools, machinery and supplies required for work in which they are interested. ENGINEERING NEWS will be glad to furnish at once, free of cost, names and addresses of firms making the machinery or material desired, after which the item will appear in this column, UNLESS OTHERWISE REQUESTED, which request will be honored absolutely. The information in all cases will be sent to our advertisers handling the material wanted, or to other firms should it be out of the line of our advertisers. Every day we are receiving such requests with the understanding that it must not appear in the paper.

PAVING BRICK.—Hartford City, Ind.—Finley Geiger informs us that he desires a list of manufacturers of paving brick.

ROAD ROLLER.—Bath, N. Y.—Frederick Y. Wynkoop, Pulteney Land Office, writes for information concerning road rollers.

TILE-MAKING MACHINERY.—San Francisco, Cal.—Shaw Trade Library, incorporated, Crossley Bldg., desires to hear from parties interested in tile-making machinery.

STREET DRINKING-FOUNTAINS.—Kinston, N. C.—L. J. Mewborne, Clk., is in the market for street drinking-fountains, and would like to hear from manufacturers or dealers of the same.

CONCRETE STEEL CONSTRUCTION.—Oklahoma City, Okla. Ter.—Max L. Cunningham, City Engr.'s Office, writes us for information concerning reinforcements for concrete steel construction.

BRIDGE-ERECTING ENGINE (2 OR 4 SPOOLS), SECOND-HAND.—Medina, O.—The Central Construction Co., R. E. French, Mgr., writes us that a bridge-erecting engine, with two or four independent clutch spools, is needed.

STEAM SHOVEL.—Pirapata, Peru, S. A.—E. S. Daugherty, Engr. Inca Mining Co., writes that he desires catalogues, data and information relative to large capacity steam shovel excavators, cost, weights, etc.

PNEUMATIC BRADDING MACHINE.—New York, N. Y.—"Compressed Air," 26 Cortlandt St., writes for information concerning a pneumatic bradding machine, such as is in general use in Canada by door manufacturers.

BOILERS, ROCK DRILLS, EXPLOSIVES, PLOWS AND ROCK CRUSHERS, GRAVEL SCREENS AND CRUSHERS.—Salisbury, N. C.—C. M. Miller, Cy. Engr., informs us that he is in the market for the above material.

RAILROAD IRON (1 MILE, SECOND-HAND), AND IRON COLUMNS.—Marion, S. C.—We are in receipt of a letter from D. F. Harrell, stating that he would like to have the names and addresses of firms dealing in the above material.

WATER-MAIN TOOLS, SCRAPERS, TOOLS, ETC., CONTRACTORS' PUMPS, CONCRETE MIXERS AND ASPHALT, TRENCH MACHINES AND CONTRACTORS' SUPPLIES, PILE-DRIVERS.—Thebus, Cape Colony, South Africa.—R. W. Newman, Gov. Irrigation Works, writes for the names and addresses of manufacturers or dealers in the above material, stating weights and prices of machines which will give satisfaction. The first cost is not so important as cost per unit of work they will turn out, and absence of breakdowns.

MEXICO.—(Continued.)

OAXACA.—Compania de los Ferrocarriles Urbano y Agricola de Oaxaca of Oaxaca, has secured a concession to build a narrow gage railroad in State of Oaxaca from Santa Anita in city of San Juan to city of Ayoguazco.

SAN LUIS POTOSI.—Mexican Sulphur Mining Co. is to build a line of railway from the mines in the state of San Luis Potosi, to connect with the Mexican Central at Cerritos or El Gato. The mines are owned, principally, by the North Carolina & Virginia Mining Co., with headquarters in Richmond, Va.

STREET AND ELECTRIC RAILWAYS.

GUADALAJARA.—Arthur E. Springall, Engr., has completed the survey for the proposed electric railway between this city and Chapala. Project is being promoted by J. N. Zermeno, an attorney of the City of Mexico. It is reported that Jose Maria Bermejillo, of Guadalajara, who owns the street railway system here, is interested in the scheme.

LA DICHA, GUERRERO.—It is stated that the La Dicha Mining Co. may construct an electric road instead of the projected steam line, to connect La Dicha with Acapulco on the Pacific coast, 60 miles distant. George Mitchell, Bradbury Bldg., Los Angeles, Cal., is interested.

MONTEREY.—The Monterey Electric Street Railway Light & Power Co., of Camden, N. J., has been incorporated with capital stock of $225,000, and is to acquire in the State of Nuevo Leon, Mexico, certain franchises and to construct and operate street railways and light and power plants. Wm. T. Wheeler, E. F. Walker and T. H. Beckett, all of Philadelphia, Pa., are interested.

PRETIL.—It is stated that M. I. Vought, of La Crosse, Wis., proposes to locate on a 20,000 acre tract, State of Tamaulpias. He will build a tramway from Pretil, on the Monterey division of the Mexican Central, to western end of his property, 25 miles. At first the motive power will be by mules, but later this will be changed to electricity. He has secured water rights. Much of the property is under irrigation already and he proposes to irrigate almost entire tract. Work of extending the ditches will begin at once.

LIGHT AND POWER PLANTS.

AMECA, JALISCO.—Aurelio Reyes, of Guadalajara, has entered into a contract with the city council of this place for the establishment of an electric light and power plant here. The plant will be operated in connection with the alcohol factory of Mr. Reyes at this place and will cost about $20,000.

ARANDAS, JALISCO.—It is proposed to establish an electric light plant, to be run by steam power here. About 1,000 lights will be installed. Porfirio Torres Camarenas, of Guadalajara, is at the head of the enterprise.

GUADALAJARA, JAL.—The company which holds what is known as the Perez concession for development of water power on the Santiago river, in the state of Jalisco, propose to transmit power to the city of Aguascalientes by means of electricity. The distance is about 110 miles. The length of the river covered by the concession is 45 kilometers, and the fall available 206 meters, or 675 feet, and it is estimated 30,000 H.P. can be developed, the location of the power being between a point known as Las Juntas, about ten kilometers from Guadalajara, to the town of San Cristobal. W. A. Rogers, of New York, and J. M. Garcia, Lazaro Lepetich and Latour de Vasquez of the City of Mexico, are the owners of the concession.

IXTLAN DEL RIO, JALISCO.—The city council of Ixtlan del Rio has entered into a contract with Messrs. Ugarte and Garcia Fuentes, of Guadalajara, for the establishment of an electric light and power plant here. The contract calls for the installation of 20 arc and 800 incandescent lights. It is the intention of the contractors to ultimately secure power from the falls of Ojo de Agua, situated about 40 miles from this place.

TEPIC, TEPIC.—D. Aguirre & Co., who operate large cotton mills here, has made a proposition to the city council of Tepic to install an electric light and power plant for furnishing lights and power for the city. If the proposition is accepted machinery will be installed and the plant will be operated in connection with the company's cotton mills.

TORREON.—At a recent meeting of the board of directors of the Compania de Tranvias Electricos it was decided to try to merge with Torreon Electric Light Co. It is proposed that the same plant shall furnish power for lighting the city and operating the new electric street raiway system here. Engineer Fred. Wulff can give information.

BRIDGES.

CHIHUAHUA.—The State Government has entered into a contract with Coronel Antonio Ramos Cadena by which the latter obligates himself to construct a bridge over the Conchos River and a street railway line from the station of Mexican Central R. R. at Santa Rosalia to hot springs known as Ojos Calientes. Plans for bridge and car line must be presented within five months and work must be completed within three years.

BUILDINGS.

CHIHUAHUA, CHIH.—Alfred Giles, of San Antonio, Texas, has completed plans for the new market building to be constructed in this city. Contracts for the material and construction will be let as soon as the municipal authorities approve the plans. A considerable quantity of structural steel for the buildings will be purchased in the United States.

SEWERAGE.

CITY OF MEXICO.—Department of Public Works is to drill a considerable number of artesian wells in the remote parts of the City of Mexico to furnish water for public use. So far the drilling of 14 wells has been ordered.

CIUDAD PORFORIO DIAZ, COAHUILA.—The Federal Government has appropriated more than $1,000,000 for the sewerage of the city of Porforio Diaz. Construction will commence this year, and considerable material will be purchased in the United States.

MAZATLAN, SINALOA.—Col. E. K. Smoot, who has the contract for the harbor improvements at the port of Manzanillo, has an engineer making plans for sewerage and water-works for the city of Mazatlan, and it is expected Col. Smoot will be awarded the contract for the work.

MANUFACTURING PLANTS.

CITY OF MEXICO.—A. F. Spawn, of Philadelphia, Pa., Pres. Banana, Coffee & Food Co., is to establish a series of plants in Mexico for the manufacture of food products from bananas.

LA CANADI, QUERETERO.—Preliminary arrangements for the concession for the establishment of a malt factory at La Canadi, have been perfected. This concession has been referred to previously. It is expected to commence construction of the factory in about two months, and to have the plant in operation in six months. Machinery for the plant, under the terms of the concession, will be admitted free of duty. Domingo R. Gomez, of 13 Calle de Cordobanes, City of Mexico, is interested.

MISCELLANEOUS.

AYUTLA, JALISCO.—The Bautista Mining Co., which is operating three old Spanish mines near here, will, it is stated, erect a concentrating plant. Bryant McLellan is Mgr.

CHIHUAHUA.—Chicago capitalists who recently acquired the Victoria mine, situated in the Barranca del Cobre district, of this state, will erect a small smelter on the property. L. A. Beachel, of El Paso, Tex., is in charge of the development work.

CITY OF MEXICO.—A number of cities in the republic are considering the matter of paving principal streets with asphalt, and contracts for the work will probably be let during the present year. The asphalt paving companies operating in Mexico are now figuring with a large number of interior cities on paving work and expect shortly to secure some extensive contracts.

DURANGO.—Rafael Bracho is preparing to erect a steel and stone dam across the Saucedo River at Charco Grande, in Durango, and states that he will require a large amount of machinery.

EBANO, TAMAULIPAS.—The Mexican Petroleum Co. at Ebano will shortly purchase considerable additional oil drilling equipment.

ETZATLAN, JALISCO.—Improvements are to be made at the San Pablo group of mines near here, which are owned by J. J. Mann, of Philadelphia, Pa., and W. M. Matthews.

GUADALAJARA, JAL.—Arrangements are being made to organize a company in Chicago to operate the Estrella del Sur y Anexas mines, situated in the southern part of the state of Jalisco. The company is to have a capital of $100,000, gold, and considerable machinery will be ordered from the United States. M. Gonzalez [illegible], of Guadalajara, is owner of the mines.

GUANAJUATO.—Carlos H. Dennen, of this city, has made application to the government for title to a gold and silver property situated in the Villalpando district of this state, and expects to develop the property.

GUNAJUATO.—J. A. Altamirano, of the City of Mexico, has made application to the government for title to land covering a large deposit of cinnabar, situated near [illegible]amacuero, this state.

MONTEREY.—Pedro Alvarado, of Parral, has purchased the Tres Rosas mine at Mampml, and it is understood he is considering the erection of a smelter at Jiminez, on Mexican Central R. R.

NAVIDAD, JALISCO.—Febronio Duenas has secured title to a gold and silver prospect in this district, and he will soon begin the work of developing the property.

OAXACA.—The Compañia Minera La Victoria y [illegible]ada, whose mines are located on the Hacienda Santa Catarina, in the state of Oaxaca, propose to equip the mine with machinery. G. W. Johnson, Coliseo Viejo No. 15, City of Mexico, is financial representative of the company and can give information.

PAPANTLA, VERA CRUZ.—The Oil Fields of Mexico Co., who have struck a gusher at "El Cuguas," near Papantla, propose to build a pipe line to Tecolutia, a port on the gulf of Mexico, distant about 35 miles, and it is also proposed to connect by rail with both the Hidalgo R. R. at Necaxa and the Interoceanic at Tezuitlan. Percy N. Furber is Pres. of the company. Considerable drilling machinery and other necessary equipment will be ordered from the United States at once.

PARRAL, CHIHUAHUA.—Extensive improvements are to be made at the "La Doris" mine, situated 85 miles northwest of here. The mine is owned by J. Francis Hode and partner. D. E. Owen is Supt.

SANTA BARBARA, CHIHUAHUA.—The Cia. Metalurgica de Torreon, of Torreon, Mexico, has approved the plans for the construction of a concentrating plant for the San Diego mine at this place. Colonel J. W. Pender is Mgr.

TEQUILA, JALISCO.—Agustin L. Gomez, representing the San Pedro Analco Mining Co. has applied to the Government for title to a new silver vein near here. The property will be developed.

TORREON.—The Compania Minera Estrellas Negras is being organized here for the purpose of operating the Adolphus Gustavo mine at Troya, state of Chihuahua. John Schramm is Pres.

FOREIGN CONTRACTS—EXPORT NEWS.

CABLE FACTORY.—Russia.—The largest electric cable factory in St. Petersburg is stated to have been destroyed by fire July 26 with loss of about $1,250,000.

RAILROADS, ETC.—Santo Domingo.—The Santo Domingo Consolidated Concessions Corporation of New York City has been incorporated with a capital of $1,000,000 to operate railroads and to develop concessions in the island of Santo Domingo. William P. Robertson and J. J. Robertson, Jr., of Bronxville, N. Y.; Thos. C. Doremus, of Whitestone, L. I., and William P. Godfrey, of New York City, are directors.

PUMPING PLANT.—England.—Bids are asked by the Clerk of the London County Council, Spring-Gardens, S. W., London, until Oct 4 for manufacture, delivery, and erection at the Council's tramway electricity generating station at Greenwich of the following plant: Two 24-in. centrifugal pumps and motors, one 3-in. centrifugal pump and motor, two 8-in. by 8-in. three-throw air pumps and motors, one 3-in. artesian well pump, fixed and rotary strainers, etc.

SEWAGE DISPOSAL WORKS.—England.—City Council of Sheffield has sent plans to Local Governing Board for proposed extension to sewage disposal works at Blackburn Meadows. The scheme was prepared by the city surveyor, and provides for treatment of the sewage by the bacteriological process. It includes the erection of a bridge over the Don and construction of a siphon to take storm water under the river. The estimated total expenditure is $1,350,000.

ELECTRIC TRANSMISSION.—India.—Madras Government is to apply to the Mysore Durbar to secure the services of Major Joly de Lotbiniere, C. E., in connection with the scheme for the utilization of the water power at Teriyar dam for generating electric current, it being proposed to ascertain whether it is possible to conduct electric power from the dam to Madras City for electric lighting and power transmission purposes. The distance from the dam to Madras City is 300 miles.

TELEPHONE EXCHANGE.—Russia.—A contract for installing a telephone exchange system in St. Petersburg, capable of taking care of 40,000 subscribers has been secured by the Western Electric Co., of Chicago, Ill. The wires will be laid in American conduit, some of the material having already been shipped from the Raritan, N. J., plants of the National Fireproofing Co., Broadway-Maiden Lane Bldg., New York.

ELECTRIC RAILWAYS.—Sweden.—Swedish Government has placed about $117,500 at the disposal of Royal Railway Board to make experiments with electric motive power on the state railways. Experiments are to commence early next year, and will be made on the Tomteboda-Vartan and Stockholm-Jarfva lines, near Stockholm, which belong to the state and have total length of about 14 kilometers. Experiments are only intended for use of single phase alternating current.

PNEUMATIC TUBES.—England.—The British & Foreign Syndicate has been formed at London, England, by J. B. Milholland, New York, to develop the pneumatic tube business. The first construction work contemplates the laying of 95 miles of double lines of tubes in London, involving an expenditure of nearly $15,000,000. The mileage will gradually be extended until the metropolis is covered with about 300 miles of double lines of tubes; 12-in tubes will be used, as it has been demonstrated that these are sufficiently large to carry between 80 and 90% of everything sold in stores. It is stated that the work of construction will be under charge of Sir John Wolfe-Barry, with Prof. William C. Unwin as Consulting Engr.

CRANE.—France.—George H. Jackson, U. S. Consul at La Rochelle, France, reports that La Rochelle Chamber of Commerce is studying best means of installing crane in quay of La Pallice Dock, and in a short time bids will be asked. American firms are invited to offer plans and description of machinery of this kind. The lifting power of the crane desired is 30 tone. The beam, or the part which projects over the water or vessel alongside, should be long enough to unload from a point about 26½ ft. from the edge of the quay. The height of the distal end above the quay should be 40.21 ft.; the vertical distance between the edge of the quay and that part of the crane

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directly over it, 26.4 ft. A locomobile crane is preferred, but should the conditions be unfavorable for installing such a machine, then a fixed crane would be adopted.

FLOUR-MILLING MACHINERY.—Asiatic Turkey.—Edward J. Sullivan, U. S. Consul at Trebizond, Turkey, reports that a request has reached him from a prominent merchant, who purposes erecting a flour mill with a capacity of 400 barrels a day, to have manufacturers of flour-milling machinery forward to the consulate, immediately, catalogues and price lists of such machinery. It is desirable that manufacturers take into consideration the following particulars: Enough machines are required for the production of 400 barrels of flour a day, and they should be first class and guaranteed. Plans and full description should accompany estimates, and the lowest price should be quoted. Water-power of about 50 HP. may be called into requisition. Manufacturers should state what horse-power is required to operate the plant. It would be well, if practicable, to give a sketch of the building required for the installation of the machinery. The building will be constructed to meet the requirement. In making estimates manufacturers must take into consideration the freight to Samsoon and the cost of sending an expert to install the machinery.

FLOUR MILL, CAST-IRON PIPE.—Abyssinia.—Robert P. Skinner, U. S. Consul-General at Marseilles, France, reports that the correspondent in Abyssinia of Simeon Mirzayantz, 20 Rue Breteuil, Marseilles, advises him of the following requirements: Machinery for a simple flouring mill, first class in quality, and of such construction that it will not readily get out of order. The flour to be produced by this machinery must be fine. The several parts should be detachable, so that they may be transported readily upon camels. Packages should not weigh more than 250 lbs. each. It is intended to operate this mill by water, or possibly by horse-power. Full plans should be submitted. Cast-iron water pipe, from 5.9 to 7.87 ins. in diameter is also desired. The joints are to be united with screws, as the pipes are intended to be deposited at a point where the current of a river to be crossed is exceedingly strong. The importance of the order will depend upon the price of the merchandise. As much as 3,300 ft. of piping may be necessary, if the price is sufficiently attractive. The weight of each joint should not exceed 265 lbs. Should this order be placed in the United States, payment will be made by Mr. Mirzayantz himself, who is a merchant of great responsibility. Mr. Skinner also states that as this is the first opportunity ever presented to American machinery manufacturers to make tenders upon Abyssinian supplies, it is desirable that they should make every effort to obtain the order, owing to the fact that there is at the present time no power gristmill in the entire Ethiopian empire, and if American machinery should happen to be the first to be introduced successfully it is altogether probable that similar orders will be forthcoming in the future. The machinery and water pipes must be eventually laid down in Jebuti. It is probable that through freight rates can be obtained from New York to Marseilles, and from there rates can be secured to Djibouti.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*BRICK PAVING.—Belleville, Ill.—Bids were received here July 27 for brick paving on three streets. Hill & Gaynard, East St. Louis, Ill., at $31,680, was successful bidder for paving High St., and will use Albion brick for the work. McCabe & Co., East St. Louis, Ill., was successful bidder for paving Jackson St., at $29,152, and for paving Church St., at $26,276. For the former Laut brick will be used and for the latter Culver block. The curb on all three streets is to be of Berea sandstone. The specifications call for 4-in. natural cement concrete 1:2:5 foundation, with 2-in. sandstone cushion, Portland cement grout filler 1 to 1, and 5-in. × 20-in. curb at least 4 ft. long. The grading is to be same depth as paving and is included in price bid. Henry F. Merker, Cy. Engr. Itemized bids for Jackson St., which required 14,642 sq. yds. paving, 8,114 lin. ft. curb and 2,966 lin. ft. 12, 15 and 18-in. pipe sewers, are as follows: (1) McCabe & Co.; (2) Wolf, Maupin & Curdie, Alton, Ill.; (3) Hill & Gaynard, East St. Louis, Ill.; (4) Storkey & &Reeb, Belleville, Ill.; (5) McCarthy Improvement Co., Davenport, Ia.:

Bids received at Belleville, Ill., July 27, 1904, for Brick Paving on Three Streets.

Items.	(1)	(2)	(3)	(4)	(5)
Paving, per sq. yd.					
Purington brick	$1.56	$1.70	$1.62	$1.72½	$1.69
Lant brick	1.50	1.65½	1.58	1.67	1.69
Clinton brick	1.56	1.66	1.60	1.68	1.69
Hydraulic brick	1.58	1.71	1.60	....	....
Culver brick	1.52	1.67	1.58	1.73	1.69
Clayburn brick	....	1.71	1.64	1.74	....
Curb, per lin. ft.					
Bedford limestone	....	....	.50	.47	.44
Berea sandstone	.43	.50	.56	.50	.47
Sewer, complete	$3,700.00	$3,350.00	$3,600.00	$4,200.00	$4,195.00

GRADING, CURBING AND PAVING.—Salt Lake City, Utah.—Following bids were received July 29 for grading, curbing and paving South Temple St.; George W. Snow, Cy. Engr.; (1) City Street Improvement Co., using Jewett & Blodgett brand of asphalt; (2) P. J. Moran, using California asphalt; (3) Barber Asphalt Paving Co., using Durango & Grizzly flux; (4) Warren Bros., Acme asphalt:

Bids received at Salt Lake City, Utah, July 29, 1904, for Grading, Curbing and Paving South Temple St.

Items.	Quantities.	(1)	(2)	(3)	(4)
Grading; excavation	34,000 cu. yds.	$0.37	$0.54	$0.52½	$0.55
" embankment	3,000 "	.80	1.20	.97	2.00
Stone curbing, 5 x 24 in	350 lin. ft..	1.92	1.64	1.75	1.85
" " 5 x 20 in	6,500 "	1.48	1.38	1.56	1.75
Curved curb stones	850 "	3.56	2.70	3.64	3.40
Cement curb and gutter	3,000 "	1.25	1.25	1.00	1.25
Cement gutter along curb	8,000 "	.51	.88	.63	.50
Resetting stone curbing	1,500 "	.35	.73	.90	.50
Paving with stone blocks	800 sq. yds.	2.75	2.76	3.06	2.80
Paving with asphalt	22,300 "	2.25	2.29	2.64	2.55
Cement sidewalk	3,200 sq. ft..	.18½	.16	.17	.14
Cement gutter inside curb	2,800 lin. ft..	.61	.99	.63	.30
Concrete culverts with concrete covers	300 "	1.23	.99	1.68	1.75
Concrete culverts with re-enforced concrete covers	50 "	2.20	2.38	1.96	3.25
Concrete culverts with cast iron covers	1,000 "	3.10	2.39	2.50	2.90
Culvert catch basins	10	22.00	29.00	24.65	200.00
Ashlar faced rubble walls	350 cu. yds.	15.00	21.00	15.68	12.00
Concrete footing	100 "	4.80	9.00	7.85	9.00
Stone coping	1,000 lin. ft..	2.90	1.83	2.50	1.90
" steps	2,100 sq. ft..	1.80	1.99	1.40	1.20
" cheeks	750 lin. ft..	2.40	2.05	2.24	1.40
Totals		$109,333	$121,135	$124,366	$124,663
Ashlar faced concrete walls	350 cu. yds.	$15.00	$20.00	$13.44	$9.50
Concrete steps	2,100 sq. ft..	.36	.94	.73	.50
Concrete cheeks	750 lin. ft..	1.80	.64	1.00	.50
Totals, using concrete walls, steps and cheeks		$105,859	$117,523	$121,245	$121,643
Time of completion	From State St. to Seventh East St.	270 work days	Oct. 1, '05	365 days	180 work days

SEWERS.—Ogden, Utah.—Following bids were received here July 18 for constructing sewrs; contract, however, was only awarded recently to L. C. Kelsey, Salt Lake City, Utah; A. F. Parker, Cy. Engr.; (1) Wheelright Bros., Ogden; (2) Gilmartin & Zitzman, Ogden; (3) J. P. O'Neil, Ogden; (4) Gibbon & Co., Denver, Colo.; (5) P. J. Moran, Salt Lake City; (6) L. C. Kelsey:

Bids received at Ogden, Utah, July 18, 1904, for Constructing Sewers.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)
20-in pipe	2,310 lin. ft..	$1.60	$1.81	$1.66	$1.53	$2.80	$1.70
18-in. "		1.03	......	1.55	1.35	2.05	1.50
15-in. "		.79	......	1.40	1.30	1.43	1.01
12-in. "	3,843 lin. ft..	.65	.68	1.00	.54	1.00	.66
10-in. "	6,157 "	.55	.61	.70	.42½	.80	.52
8-in. "	17,206 "	.43	.46	.49	.30	.43	.39
Trench 8 ft. or less......per lin. ft.		.81	.78½	.50	.60	.53	.55
" 8 to 10 ft. " "	22,560 lin. ft..	.91	.92	.74	.60	.69	.56½
" 10 to 12 ft. " "	6,955 "	.95	.93	.85	.93½	.80	.70
" 12 to 14 ft. " "		1.13	1.00	1.30	.93½	.90	1.10
" 14 ft. or more " "		1.25	.20	.50	.26	.25	.12
Manholes, 10 ft. or less ......each	72	66.00	69.00	60.00	44.00	59.00	47.00
Manholes, per ft. for over 10 ft. deep	31	4.50	2.00	3.00	47.50	2.00	3.50
Extra concrete......per cu. yd		8.75	7.00	9.90	9.00	10.00	9.00
3-in. drain tile......per lin. ft.	28,000 lin. ft..	.06	.07	.03	.05	.05	.07½
Cribbing timber......per M.	10,000 ft.	12.00	10.90	15.00	20.00	36.00	35.00
Extra grading......per cu. yd		.43	.30	.60	.50	.80	.80
Totals		$52,993	$54,261	$51,499	$42,492	$48,769	$41,498
Time for completion		Jan. 1, '05	....	Dec. 31,'04	....	Jan. 1,'05	Dec. 1,'04

PIPE SEWER.—Norristown, Pa.—We are informed that contract for sewer in Chain St., to consist of (1) 950 ft. 8-in. vitrified pipe, (2) 500 ft. laterals, three manholes and (3) 1,500-gallon flush-tank, was let Aug. 1 to Murdock & Mullin, Philadelphia, Pa., at the following bid, borough to furnish all pipe: (1) 66 cts., (2) 53 cts., (3) $125. Contract for sewer in Spruce and Willow Sts., to consist of (1) 530 ft., 8-in. vitrified pipe, (2) 240 ft. laterals, three manholes, and (3) 500-gallon flush tank, was let to John Skelly, Norristown, at the following bid, borough to furnish all pipe: (1) 82 cts., (2) 69 cts., (3) $125.

DREDGING AND FILLING.—Washington, D. C.—Following bids were received July 30 by Bureau Yards and Docks for dredging and filling in at League Island Navy Yard: Bowers Hydraulic Dredging Co., 211 Market St., Camden, N. J. 23.9 cts. per cu. yd.; time 15 months. Henry Steers, 17 Battery Pl., New York. 19.45 cts. per cu. yd.

*WIRE, WIRE STRAND, CLIPS, ROPE, ETC.—Memphis, Tenn.—Bids were received by Capt. E. W. Van Lucas, U. S. Engrs., July 28, in connection with levee work in the Missisippi River, for wire, wire strand, staples, clips and Manila rope. The bids received for furnishing the above supplies for the 3d District were as follows; (1) H. E. Coffin, Memphis, Tenn.; (2) Handlan-Buck Mfg. Co., St. Louis, Mo.; (3) New Jersey, F. & M. Co., New York, N. Y.; (4) Wm. S. Bascom, St Louis, Mo.; (5) Eugene Nowland & Co, Memphis, Tenn.:

Bids received at Memphis, Tenn., July 28, 1904, in Connection with Levee Work on the Mississippi River.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)
Galvanized wire No. 12	400 cwt.	$2.32	$2.32	$2.91	*$2.30	$2.65
Silicon bronze wire No. 9	12 cwt.	*18.15	18.15	......	......	......
Wire strand, ⅝-in	1,000 cwt.	3.42	3.42	4.62	*3.09	3.80
" " ⅜-in	200 cwt.	3.17	3.17	4.18	*2.81	4.10
" " 7/16-in	400 cwt.	3.33	3.33	4.34	*2.92	4.20
" " ¼-in	1,400 cwt.	3.60	3.60	4.67	*3.51⅝	4.30
Wire staples No. 9	30 cwt.	......	2.75	......	*2.43	......
Cable clips	7,000	M. .04¼, E. .03¾	.04¼	......	.0345	*.0780
Manila rope, 2-in. diam	6 coils	*.1162	.13⅜	......	.119	......
" " 1½-in. diam	6 coils	*.1162	.13⅜	......	.119	......
" " 1¼-in. diam	6 coils	*.1162	.13⅜	......	.119	......
" " 1-in. diam	4 coils	*.1162	.13⅜	......	.119	......
" " ¾-in. diam	2 coils	*.1162	.13⅜	......	.119	......
" " ½-in. diam	2 coils	*.1162	.13⅜	......	......	......

*Recommended for acceptance.

DREDGING.—Portland, Me.—Bids were received Aug. 1 by Major S. W. Roessler, U. S. Engrs., for dredging in Kennebec River, requiring removal of 215,000 cu. yds., earth and unknown quantity of boulders. Eastern Dredging Co., Portland, Me., offered the following bid: Removal earth, 43 cts. per cu. yd.; boulders exceeding five tons, $8 per ton, total, $92,450.

*BRUSH, POLES AND STONE.—Memphis, Tenn.—In connection with the levee work for improving Mississippi River, bids for which were received by Capt. E. W. Van Lucas, U. S. Engrs., July 28, bids were also received for furnishing brush, poles and stone. A brief abstract of the bids recommended for acceptance for the levee work are given under Miscellaneous Contracts. For furnishing 33,500 cords brush and 1,100 cords poles for 1st and 2d Districts, Hunter & Frey, Memphis, Tenn., bid $1.08 and $2.00 respectively per cord, and for furnishing 30,000 cords brush and 1,200 cords poles for 3d District same firm bid $1.12 and $2.00, their bids being recommended for acceptance. K. H. Killebrew & Co., Cape Girardeau, Mo., on last contract bid $1.269 and $1.99, respectively. For furnishing, 18,000 cu. yds. rip rap and 4,500 cu. yds. quarry spalls piled on bank at Greenville, Miss.; Union Stone & Contracting Co., Birmingham, Ala., bid $1.85 and $2.25 respectively. And for above quantities on Government barges at Greenville, Miss., same firm bid $2.15 and $2.50. K. H. Killebrew & Co., bid $0.70 for each, to be delivered on Government barges near Bainbridge, Mo., and Edward Hely, Cape Girardeau, Mo., bid $1.70 each, delivered on Government barges at West Memphis. J. J. Ball & Co., Arkansas City, Ark., offered bid of $1.84 for each, to be delivered on Government barge at Hopefield Point. For stone and spalls delivered on contractor's barges at Hopefield Bend, Chas. J. Menges, Cincinnati, O., bid $1.96 for each, this bid being recommended for acceptance.

All the above bids were for stone for 1st and 2d Districts. For the 3d District bids on (1) 20,000 cu. yds. rip rap, and (2) 5,000 cu. yds. quarry spalls piled on bank at Greenville were received as follows: Union Stone & Contracting Co., (1) $1.85, (2) $2.25; A. T. Terrell, Birmingham Ala., (1) $1.70, (2) $2.00. For stones delivered on Government barges at Greenville, same parties bid (1) $2.15, (2) $2.50, and (1) $1.95 and (2) $2.30, respectively. For the stone delivered piled on bank at Arkansas City, J. J. Ball & Co., bid $1.55 and $1.85 for each, respectively, and these bids were recommended for acceptance with option by government to decide place of delivery. Grafton Quarry Co., Grafton, Ill., bid $0.60 for furnishing 10,000 cu. yds. rip rap., delivered on Government barges at Grafton.

SEWER.—St. Joseph, Mo.—Following bids were received here recently for construction of 100-ft. sewer extension; (1) bid for per lin. ft. 6-ft. brick sewer; (2) for concrete sewer: William Mignery, (1) $10.50, (2) $12; Rackliffe & Gibson, (1) $12, (2) $13; Patrick Morley & Co., (1) $8.25, (2) $12.25; G. O. Skilbred, (1) $8.75; J. H. Hartman & Co., (1) $9, (2) $12.

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INDUSTRIAL NOTES.

OUR READERS are requested to send short notes regarding new contracts that they are about to award, or have secured, for our news columns. Changes in firms' names and addresses are also wanted. "Write-ups" will not be inserted under any circumstances, as notes must contain news of interest to our readers. If our readers are in the market for any kind of machinery tools, etc., we shall be glad to send them names of responsible firms making what they want.

EDWARD SMITH & CO., 45 Broadway, New York, announce that the fire in their Chicago plant was of no consequence, and state that they are able to do business as usual.

CARVER & CO., New York, inform us that they have opened an office at 110 John St., and are prepared to make assays and to work gold and silver ores by the latest improved process.

THE CHARLES WARNER CO., of Philadelphia, Pa., and Wilmington, Del., will supply the Diamond Stone Brick Co., Wilmington, with the raw material for the manufacture of sand lime brick.

THE INGERSOLL-SERGEANT DRILL CO., 26 Cortland St., New York, announces that Mr. Wm. H. Armstrong, formerly manager of the Chicago Pneumatic Tool Co., is now associated with this company and will have charge of the Pneumatic Tool Department.

THE CAMERON SEPTIC TANK CO., with headquarters in the Monadnock Block, Chicago, Ill., has on view at the St. Louis Exposition a working model of a septic tank for the treatment of sewage. It is located in the Hygiene Section of the Palace of Education, Block 6, Sec. 6.

TEMPLETON, KENLY & CO., LIM., 33-37 East Ontario St., Chicago, Ill., manufacturers of the Simplex car jacks and dealers in light section rails and track supplies, have been consolidated with the shops and warehouse and have removed their offices from the Rookery Building.

THE U. S. WIND ENGINE & PUMP CO., of Batavia, Ill., has taken over the business of the Tweeddale Water Softening Co. Mr. C. S. Burt, President of the latter concern, states that the business grew to such an extent that the company's capital was inadequate. The operating staff will continue with the new owners.

MR. ARTHUR VISICK, formerly of the Napier Co., manufacturers of motor cars in England, has been appointed representative for the Packard Motor Car Co. (Detroit, Mich.), at St. Louis, Mo. Mr. Visick has had a wide experience abroad in connection with the Woolsley and Napier factories, and is well posted on all the leading European cars.

THE KNICKERBOCKER CONSTRUCTION CO., of 15 Cortlandt St., New York, has been awarded the contract for the installation of the underground and aerial cables for the new Lewiston-Auburn (Me.) Automatic Telephone Co., amounting to over 100,000 ft. The cable is being manufactured by the Stromberg-Carlson Telephone Mfg. Co., of Rochester, N. Y.

JOHN DYER, JR., Albany, N. Y., states that he has started work on the reconstruction of a car house for the United Traction Co. of that city. The new building will be one story high, fireproof and about 125 × 325 ft. The Hennebique system of armored concrete will be used for the columns, girders and roof construction. He is the licensed contractor for the above system.

THE COFFIN VALVE CO., of Boston, Mass., has just received two contracts for gate valves, one of five 60-in. gates for the city of Erie, Pa., and the other for the city of Cincinnati, O., in sizes ranging from 4 ins. to 48 ins. in diameter. These contracts were both awarded to this company solely on account of design, as they were next to the highest bidder in each case among seven proposals.

THE EXCELSIOR WOODEN PIPE CO., of San Francisco, Cal., D. C. Henny, Gen. Mgr., through the personal efforts of Shirley Baker, C. E., Mgr., has secured the contract for the construction of approximately 20 miles of wooden stave pipe, to be the greater portion of the 30-in. conduit intended to carry the water supply of the city of Lynchburg, Va. The pipe is to be built of California redwood, the staves will be run at the new factory of the Redwood Manufacturers' Co., located at Black Diamond, Cal., from 2 × 6 stock, and will have a finished thickness of 1½ ins. It will require 18 staves 5¾ ins. in width to complete the circumference of the pipe. The bands will be of mild round steel ½-in. in diameter, spaced to withstand the various pressures to which the different portions of the pipe will be subjected. Construction will begin as soon as possible.

THE WELLMAN-SEAVER-MORGAN CO., of Cleveland, O., has just closed a contract with the Leiter Coal Co. for the construction and erection of a second hoisting plant at the mines at Zeigler, Ill. This plant will consist of a steel head-frame, equipped with double-cylinder hoisting engine and all the necessary guides, counterweights, etc. Wellman-Seaver-Morgan Co. has also been awarded a contract to furnish the Wellman-Street cast-steel truck bolsters for 800 cars to be built by the Norfolk & Western Railway Co., the whole order amounting to 550 tons of steel castings, each bolster consisting of one steel casting, having side bearing and center plates cast integral therewith, and same will be made from open-hearth basic steel. Of the 800 cars, 200 will be hopper coal cars of 50 tons capacity, having steel underframes with wood lining, and will be built at the company's shops at Roanoke, Va. The remaining 600 cars will be box cars, 40 tons capacity, having steel underframes, and will be built by the American Car & Foundry Co., at Huntington, W. Va.

THE WYCKOFF PIPE & CREOSOTING CO., of Stamford, Conn., have the contract for furnishing the city of Baltimore with creosoted wooden paving blocks to be used for paving bridges in that city. The city of Baltimore recently completed an experiment with different kinds of pavement, laying them on the approach to a bridge where the traffic is extremely heavy. The creosoted wooden blocks, besides having the advantages of being easy for the horses and noiseless, were found to wear better than any other kind of pavement, which included asphalt, granite block and vitrified brick. Creosoted wooden block pavement is particularly adapted for use on bridges on account of the weight. Its weight is less than half that of vitrified brick pavement. On some bridges this difference will amount to several hundred tons, making quite a difference in the cost of the steel necessary for the construction of the bridge.

CONTRACT PRICES.

STREET WIDENING.—Melrose, Mass.—Following bids were received by W. Dabney Hunter, Engr. and Supt. Wks., Aug. 1 for widening Main St., from Porter St. to Wakefield Line; (1) James L. Brine, 55 Bowdoin Ave., Dorchester, Mass.; (2) Coleman Bros., Union St., Everett, Mass.; (3) John F. Lynch, 44 Gibson St., Dorchester, Mass.; (4) R. J. Hudson, Melrose; (5) H. G. Turner & Co., 20 Central St., Boston, Mass.; (6) J. J. Sullivan, 85 Milk St., Boston, Mass.; (7) T. H. Gill & Co., 31 Milk St., Boston, Mass.; (8) H. Gore & Co., 54 Kilby St., Boston, Mass.:

Bids received at Melrose, Mass., August 1, 1904, for Widening Main Street, from Porter St. to Wakefield Line.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Earth excavation	1,000 cu. yds.	$0.50	$0.50	$0.80	$0.80	$0.70	$1.25	$0.75	$0.45
Rock excavation	150 "	5.00	2.00	3.80	4.00	3.25	5.00	3.00	2.75
Spruce piling	2,500 lin. ft.	.23	.20	.26	.30	.20	.35	.40	.25
8-in. pipe	240 "	.30	.40	.31	.50	.36	.40	.60	.37
12-in. "	365 "	.55	.60	.51	.60	.63	.50	.75	.63
15-in. "	580 "	.85	.75	.59	.80	.86	.60	1.25	.85
Spruce lumber	1,000 ft. B. M.	40.00	40.00	23.00	50.00	23.00	40.00	40.00	35.00
Brick masonry	60 cu. yds.	22.00	18.00	25.00	20.00	20.55	18.00	17.00	25.00
Concrete masonry	35 "	7.00	7.00	3.80	10.00	6.50	12.00	7.00	5.00
Stone masonry	410 "	5.00	5.00	3.00	3.00	7.50	7.00	4.00	4.00
Trees removed or reset	65	10.00	6.00	25.00	3.00	6.00	25.00	15.00	*500.00
Filling	4,000 cu. yds.	.70	.50	.47	1.00	1.30	1.20	.85	.25
Straight curbing	6,850 lin. ft.	.73	.80	.87	.70	.72	.80	1.25	.77
Curved curbing	385 "	1.00	1,25	.97	.90	.93	1.40	1.25	.95
Curbing reset	1,570 "	.20	.20	.14	.20	.18	.35	.50	.13
Flagging, 18-in	1,700 "	.65	.90	.77	1.25	.78	.65	1.00	.95
" 24-in	1 "	1.00	1.50	.96	1.75	.97	1.00	2.00	1.10
" removed and relaid	130 "	.20	.50	.16	.20	.32	.15	1.00	.50
Granolithic walk	60 sq. yds.	2.00	2.00	1.75	2.50	2.00	2.20	2.00	2.00
Brick walk	820 "	.80	.75	.85	1.00	1.00	.95	2.00	.80
Concrete walk	585 "	.58	.75	1.26	.50	.75	.70	.75	.50
Top dressing	1,600 "	.27	.15	1.00	.20	.45	.35	.50	.35
Paving gutters	3,100 "	.30	.50	.53	.50	.40	.90	1.00	.50
Paving side of tracks	1,550 "	2.00	2.00	1.93	2.00	1.80	2.25	3.00	2.68
Crushed stone	1,900 tons	1.45	1.65	1.13	2.50	1.85	2.45	2.00	2.60
Guard rail	1,550 lin. ft.	.12	.40	.75	.25	.35	.45	.35	.25
Loam, seeded	600 cu. yds.	.80	1.00	1.00	1.00	3.00	1.25	1.00	.75
Sodding	2,000 sq. ft.	.02	.04	.03	.05	.08	.10	.10	.04½
Stone bounds	40	6.00	4.00	2.75	3.00	1.70	6.00	3.00	1.50
Totals		$25,805	$26,385	$28,750	$29,776	$31,807	$36,731	$38,335	$59,949

*H. Gore & Co. claim that a clerical error of $495 was made in this item, which would reduce their total bid to $27,774

*SEWERS.—Ames, Ia.—Following bids were received July 21 for constructing pipe sewers for this place; A. Marston, Engr.; (1) R. E. Jackson, Cedar Rapids, Ia.; (2) O. P. Henrick, Des Moines, Ia.; (3) Des Moines Bridge & Iron Co., Des Moines, Ia.; (4) J. W. Turner, Des Moines, Ia.; (5) King-Lambert Const. Co., Des Moines, Ia.; (6) Sheeley & Smith, Osceola, Ia.; (7) Lytle Const. Co., Sioux City, Ia.; (8) Shepard & Hanrahan, Des Moines, Ia.; (9) W. I. Gray & Co., Minneapolis, Minn.; (10) W. F. Cook, Des Moines, Ia.:

Bids received at Ames, Ia., July 21, 1904, for Constructing Pipe Sewers.

Bidders.	10-in. sewer, 12½-ft. trench, 2,690 lin. ft.	8-in. sewer, 10-ft. trench, 14,980 lin. ft.	6-in. sub-drains, 17,670 lin. ft.	Manholes, 21.	Lampholes, 21.	Combined flush tank and manholes, 5.	Flush tanks, 2.	Total.
(1)	$1.20	$1.15	$0.23⅓	$15.00	......	$100.00	$70.00	$25,644
(2)	1.19	1.12	.29	34.00	$9.00	45.00	40.00	25,890
(3)	1.50	1.30	.10	60.00	5.00	150.00	75.00	26,043
(4)	1.55	1.04	.19	47.00	3.00	130.00	90.00	24,986
(5)	1.30	1.25	.08	35.00	7.00	77.00	50.00	25,003
(6)	1.56	1.11	.21	46.00	2.50	137.50	89.00	26,419
(7)	1.25	1.15	.20	50.00	5.00	100.00	75.00	25,928
(8)	1.56	1.03	.19	47.00	2.75	131.00	89.50	24,862
(9)	1.63	1.15	.18	52.00	4.00	120.00	90.00	26,748
(10)	1.50	1.30	.10	35.00	9.00	100.00	60.00	26,820

SEWERAGE SYSTEM.

Dansville, N. Y.

Sealed proposals will be received by the Board of Trustees of the Village of Dansville, N. Y., until 12 o'clock noon on the 31st day of August, 1904, for the construction of sewage disposal works and such portions of the sewerage system for said village as are indicated in red colored lines and shown upon a sewerage map and plans of the permanent sewerage system and sewage disposal works for said village and as shown by profile maps heretofore numbered 1 and 2, said maps and plans being heretofore submitted to and approved by the State Department of Health and filed in its office at Albany, N. Y., and duplicates thereof duly filed in the office of the clerk of said village on the 8th day of June, 1904, and also for such portions of the system of storm water sewers planned by Knight & Hopkins, Engineers, indicated by red colored lines upon the map of storm water sewers duly filed in the office of the clerk of said village on the 8th day of June, 1904.

The estimated maximum cost of said sewage disposal works and such portions of the proposed sewerage system to be constructed as above defined is the sum of $84,000.00, and the estimated minimum cost thereof $70,000.00; and the estimated maximum cost of the construction of such portions of the system of storm water sewers being the sum of $11,000.00, and the estimated minimum cost thereof the sum of $8,000.00.

Plans and profiles may be seen and specifications obtained at the office of the Clerk of the Board of Trustees in the Village of Dansville, N. Y., and plans seen and specifications obtained at the office of Knight & Hopkins, Engineers, Rome, N. Y.

Bids will be received for the whole work only.

The Board of Trustees reserves and has the right to accept or reject any proposal, to contract with other than the lowest bidder and to reject all proposals and advertise again.

A bond satisfactory to the Board of Trustees in amount and sureties and in a sum equal to 30 per cent. of the contract price will be required of the bidder to whom the contract may be awarded. The sureties shall be residents of the State of New York, or a surety company organized under the laws of and doing business in the State of New York, the latter preferred. Each bidder will be required to state in his proposal the names and addresses of his bondsmen.

A certified check upon a State or National Bank to the amount of $2,000.00, drawn to the order of the Treasurer of the Village of Dansville, N. Y., must be deposited by each bidder as a guarantee that in case any contract is awarded him, he will, within seven days after notification of award, execute said contract.

Proposals must be on forms submitted by the Board of Trustees and must be sealed and addressed or delivered to James A. Young, Clerk of the Village of Dansville, N. Y., and marked on the outside of the envelopes enclosing them, "Proposals for Dansville Sewers."

By order of the Board of Trustees of the Village of Dansville.

Dated, August, 8th, 1904.

OSCAR WOODRUFF, President.
JAMES A. YOUNG, Clerk. 6-2t

ASPHALT PAVING.

Norfolk, Va., Aug. 10, 1904.

Sealed proposals will be received at this office until 12 o'clock noon on the 29th day of August, 1904, for curbing with granite and paving with asphalt, a portion of Granby Street in this City.

Proposals must be addressed to the Board of Street, Sewer and Drain Commissioners, and must be accompanied in each instance by a certified check on a Norfolk Bank in the sum of $500.00, payable to H. S. Herman, City Treasurer, which will be forfeited as liquidated damages to the City of Norfolk should the successful bidder fail to enter into a contract with said City and give satisfactory bond within ten days of the award of the contract.

Specifications for the work can be had at the office of the City Engineer. The work comprises about 3,300 feet curbing and 7,000 square yards asphalt.

The right to reject any or all bids is reserved.

B. GRAY TIMSTALL,
Chairman Board S., S. and D. Comrs.
6-2t

SANITARY SEWER SYSTEM.

Laurel, Miss.

Pursuant to the order of the City Council of the City of Laurel, of the County of Jones and state of Mississippi, sealed proposals are hereby invited by the city clerk of said city, to be filed with him at his office in said city on or before the 27th day of August, 1904, at 8 o'clock p. m., for furnishing all material and labor and constructing a sanitary sewer system in the city of Laurel and the outlet thereto, according to plans and specifications of the Iowa Engineering Company, of Clinton, Iowa, now on file with the city clerk, which are hereby referred to and made a part hereof; said sewers to be constructed of Standard vitrified, salt-glazed sewer pipe, laid with cement joints, and all proper manholes and flush-tanks, as shown on the plans. Such work to be completed on or before Feb. 1, 1905.

APPROXIMATE QUANTITIES.

36	feet	20″	Cast-iron pipe.
4,200	feet	20″	Vitrified sewer pipe.
2,027	feet	18″	" " "
367	feet	15″	" " "
644	feet	12″	" " "
1,516	feet	10″	" " "
11,887	feet	8″	" " "
43	Manholes.		
13	Flush-tanks.		

The cost of the improvement herein contemplated to be paid for in cash from funds now in hand derived from the sale of bonds. Eighty per cent. (80%) to be paid on monthly estimates and the balance on completion of the work.

All proposals must be accompanied with a certified check on a responsible bank of said city, payable to the order of the city treasurer, for the sum of One Thousand Dollars ($1,000) as security that the bidder whose proposal is accepted will enter into a contract for doing the work, and will give the bond hereinafter specified, the cash for which will be forfeited and become the property of the city of Laurel in case of failure to enter into a contract and give said bond.

The contractor whose proposal is accepted shall give a bond to said city for the faithful performance of the contract, in accordance with the plans, specifications, ordinances and motions of the city council heretofore passed and the laws of the state of Mississippi, in a sum equal to fifty per cent. (50%) of the bid submitted.

Said proposals will be acted upon by the city council of said city on the 27th day of August at 8 o'clock p. m., or as soon thereafter as said city council may direct, but said city council may reject any and all bids and advertise for new bids.

IOWA ENGINEERING COMPANY,
6-1t Consulting Engineers.

Dated at Laurel, Mississippi, Aug. 2, 1904.

By order of City Council.

U. S. ENGINEER OFFICE, 1637 Indiana Ave., Chicago, Ill., Aug. 9, 1904.—Sealed proposals will be received here until 12 m., Sept. 9, 1904, and then publicly opened, for manufacture and delivery of over fifteen hundred tons of steel, iron, etc., for aqueduct bridges, sluice gates, lock gates, valves, operating machinery, etc. Information on application here or to Assistant Engineer L. L. Wheeler, Sterling, Ill., and Jas. C. Long, Wyanet, Ill. C. S. RICHE, Maj., Engrs. 6-4t

For other Proposal Advertisements see pages 35, 36, 37, 38 of Advertisements and Construction News page 74.